AUTHOR INDEX

VOLUME 63

Abad, F. X., 3119
Abbaszadegan, Morteza, 324
Abee, T., 4079
Abee, Tjakko, 178, 1155, 3451, 3628
Abeysinghe, P. D., 4340
Accarino, Michela, 3279
Adair, Debra M., 1400
Adair, Nanci, 983
Adams, David G., 4479
Adams, Michael W. W., 289, 347
Adang, Michael J., 1024
Adler, L., 128
Agaisse, Hervé, 779
Agathos, Spiros N., 806
Aguda, R. M., 1453
Aguirre, A. Alonso, 2925
Ahring, Birgitte Kiær, 2001, 3043
Akashi, Takeshi, 454
Akehata, Takeshi, 4844
Akhurst, R. J., 574
Akimoto, Kengo, 1820
Akin, Danny E., 3950
Alcaide, Elena, 537
Aleksic, Stojanka, 2175
Alfreider, Albin, 867, 4778
Al-Hawari, Jalal, 2915
Alichanidis, E., 4872
Allard, Sharon E., 1701
Allen, C. C. R., 151
Allen, Jon, 3589
Allestam, Görel, 2708
Alm, Elizabeth Wheeler, 1178
Almagro, Anabel, 4005
Al-Niemi, Thamir S., 4978
Alves, A. M. C. R., 956
Amachi, Teruo, 1362
Amann, Rudolf, 115, 596, 2047, 2884, 3268, 4223
Amarger, Noëlle, 4748
Amari, Masahiro, 1847
Amaro, Carmen, 537, 1460
Amirhusin, Bahagiawati, 2798
Ampe, Frédéric, 2765
Amy, Penny S., 3128
An, Young-Sook, 4866
Anastasio, Maria Paola, 4102
Andersen, Gary L., 1400
Anderson, James B., 3426
Anderson, James E., 687
Anderson, J. G., 1182
Andersson, Jan T., 3032, 3463
Andersson, M. A., 387
Andersson, M. C., 387
Andrade, José-Luís, 851
Andreasen, Kjær, 3662
Andreatta, Stefan, 4778
Andreesen, Jan R., 4891
Andrews, John H., 3261
Angles, Mark L., 3698
Anguish, Lynne J., 724, 3844
Anné, J., 1808
Annous, Bassam A., 3887
Ansede, John H., 3182
Ansell, R., 128
Ansorgova, Alena, 3707
Antranikian, G., 1088
Aono, Rikizo, 1428, 3637
Aragao, Glaucia M. F., 2765
Arai, Hiroyuki, 3282
Archibald, Douglas D., 3950
Arfmann, Hans-Adolf, 3458
Arias, Covadonga R., 2600
Arieli, Boaz, 3507
Arima, Keiko, 2489
Arimi, Samuel M., 3695
Armstrong, David C., 2759
Armstrong, Michelle, 3304
Arp, Daniel J., 3607, 4588
Arrowood, Michael, 1598
Asako, Hiroyuki, 1428
Asano, Shin-Ichiro, 1054
Assmus, B., 2038
Aßmus, Bernhard, 719
Ataai, M. M., 710
Atomi, Haruyuki, 1362, 4956
Attfield, Paul V., 3818
Attfield, P. V., 145
Atwill, Edward R., 3946
Audurier, André, 3374
Auffray, Yanick, 812
Aureli, Paolo, 1148
Averhoff, Beate, 4150
Avery, Simon V., 2971
Azcón, Rosario, 4408
Azcona, Juan I., 4990
Azelvandre, Pierre, 213
Aznar, Rosa, 2600

Bååth, Erland, 2224
Bae, Hee-Sung, 2578
Baer, Marcie L., 84
Bagdasarian, Michael, 1189
Bai, Guiyun, 1866
Bai, Quingyun, 1011
Baik, Seung-Chul, 4866
Bailey, Mark J., 1577, 1584
Bailly, Jean-Luc, 3199
Baines, D., 440
Baines, Danica, 1679
Baker, L. Stuart, 4304
Baker, Paul, 3233
Balasubramanian, P., 2792
Balazs, George H., 2925
Bando, Hisanori, 1054
Banerjee, P. C., 4523
Bannerman, Elizabeth, 1338
Bannister, Laura A., 3770
Barak, Ze'ev, 4883
Barbieri, Paola, 3279
Barbosa, Teresa M., 3405
Barbotin, Jean-Noël, 21
Barea, Jose-Miguel, 4408
Baric, Ralph S., 4401
Barkay, Tamar, 3291, 4267
Barker, Susan, 676
Barns, Susan M., 3614
Baross, John A., 4075
Barroso, Gérard, 4686
Bartha, Richard, 4511
Barthelmebs, Lise, 1939
Bartlett, Douglas H., 945
Bartolomé, Begoña, 208
Bartolucci, Simonetta, 4020
Barton, Troy A., 3770
Bartoszyk, I. M., 2625, 2631
Batchelor, S. E., 2281
Bååth, Erland, 3531
Batisse, Nadine, 763
Batt, Carl A., 2702
Baudart, Julia, 3274
Bauer, Michael W., 289, 1160
Bauer, Sheryl H., 1160
Baumberg, Simon, 1288
Bauske, E. M., 1617
Bayles, Darrell O., 1889, 3887
Bayona, Josep M., 819
Becke, H., 2038
Becker, Georg, 1318
Becker, Lynne A., 3887
Bedard, Donna L., 2836, 4818
Beerthuyzen, Marke M., 4581
Behrendt, Chad J., 1995
Behringer, Katja, 547
Beisker, Wolfgang, 4223
Bejarano, Eduardo R., 3657
Belaich, Anne, 903
Belaich, Jean-Pierre, 903
Belay, Negash, 2092
Belcher, Craig, 254
Belkin, Shimshon, 2566
Bell, P., 3104
Beller, Harry R., 3729
Bellon-Fontaine, Marie-Noëlle, 1725
Beltrametti, Fabrizio, 2232
Ben-Dov, Eitan, 4883, 4971
Benhamou, Nicole, 2095
Benítez, Tahía, 4800
Benjamin, Melissa M., 4123
Benjamin, Nigel, 924
Bennik, Marjon H. J., 2074, 3628
Benny, Ulla, 3311
Berezina, Natasha, 4883
Berg, Trine N., 1945
Berge, Odile, 1852
Bergeron, Hélène, 2915
Bergquist, Peter L., 3297
Beringer, John E., 1288
Berka, Randy M., 3151
Bernard, Cécile, 4413
Bernard, Laetitia, 3274
Bernard, Théophile, 4657
Bernet-Camard, Marie-Françoise, 513, 2747
Berry, Elaine D., 4069
Berthelin, Jacques, 2729
Bertolla, Franck, 4965
Bertrand, Jean-Claude, 636
Best, M., 3916
Bestetti, Giuseppina, 2232
Beuchat, Larry R., 1953
Beutin, Lothar, 2175
Beuzón, Carmen R., 2082
Beveridge, Terry J., 2022
Bevivino, A., 4485
Bezalel, Lea, 2495
Bhaduri, Saumya, 1657, 4952
Bhatnagar, Deepak, 1349
Bibb, M. J., 956
Bidle, Kay D., 1762
Bille, Jacques, 1338
Binnerup, Svend Jørgen, 2920
Binz, Hans, 2481
Biosca, Elena G., 537, 1460
Birrien, Jean-Louis, 1230
Björkqvist, S., 128
Björkroth, J., 3992
Björkroth, K. Johanna, 448
Blackmore, Richard, 4313
Blais, Burton W., 310
Blake, Michael R., 1643
Blanc, Philippe J., 2671
Blanchard, Sylvie, 2779
Blanchette, Robert A., 1995
Blanco, Carlos, 4657
Blaschek, Hans P., 2306
Blasco, Rafael, 427
Blatny, Janet Martha, 370
Blattmann, Beat O., 4698
Blaut, Michael, 1732
Block, J. C., 1564
Bloemberg, Guido V., 4543
Böckle, Brigitte, 790
Boddi, Vieri, 2934
Bodie, E., 4627
Boehm, Michael J., 162
Boemare, N., 574
Boerlin, Patrick, 1338
Boerlin-Petzold, Franziska, 1338
Boivin, Catherine, 1040
Bolin, C. A., 4975
Bollag, Jean-Marc, 4096
Boller, Thomas, 1543
Bolognese, Fabrizio, 3279
Bonadonna, Lucia, 4102
Bones, Atle M., 1945, 3972
Bonev, M., 4377
Bonin, Patricia C., 636
Bonsall, Robert F., 951
Boopathy, Ramaraj, 2092
Booth, I. R., 4083
Borgå, Peter, 1476
Bormann, Christiane, 3553
Borneman, James, 2647
Borneman, S., 4627
Borneman, W. Scott, 1307
Borrego, Juan J., 1449
Bosch, A., 3119
Bosman, F., 13
Bosse, Ulrike, 1199
Bottalico, Antonio, 1843
Boucher, Isabelle, 1274
Bouley, Christine, 1725
Boumerdassi, Hassina, 2293
Boundy-Mills, Kyria L., 916
Bouquard, Corinne, 862
Bourbonnais, R., 4627
Bourbonnière, Luc, 3719
Bourlioux, Pierre, 1725
Boussiba, Sammy, 4971
Bouttier, Sylvie, 1725
Bowman, Dwight D., 3844
Bowman, John P., 3068
Boyce, Walter M., 3946
Boyd, D. R., 151
Boyd, Philip W., 1441
Boze, Helene, 2779
Bracesco, Nelson, 2821
Brand, Willi, 474
Brassart, Dominique, 2747
Bratbak, G., 2181
Braunegg, Gerhart, 827
Brautaset, Trygve, 370
Breeuwer, Pieter, 178
Bregnard, Thierry Pierre-Alain, 2077
Brenchley, Jean E., 2928
Breves, Roland, 3902
Bridge, P. D., 3189

Brinkhoff, Thorsten, 3789
Brizuela, María A., 2637
Brodman, B. W., 1712
Bronnenmeier, Karin, 3902
Brousseau, R., 3978
Brousseau, Roland, 1679
Brown, Cathy A., 27
Brown, Kimberly M., 3151
Brown, Mark V., 3068
Brown, Robert L., 3548
Brown, Stephen H., 3151
Bruce, Kenneth D., 4914
Bruce, Neil C., 2062
Brueggemann, E. E., 239
Bruinenberg, Paul G., 561
Brul, Stanley, 3764
Brune, Andreas, 4039
Brunel, B., 574
Brusseau, Mark L., 1866
Brüssow, Harald, 3144
Bruttin, Anne, 3144
Bryant, Lalette J., 2944
Budzikiewicz, Herbert, 1739
Bugbee, Bruce, 4621
Buhr, T. L., 2378
Buist, Girbe, 2722
Bulla, Lee A., Jr., 3419
Bumann, Ursel, 227
Bunyard, B. A., 1467
Burbank, Dwight E., 1551
Burge, Harriet, 2554
Burkill, Peter H., 938
Burnens, André P., 703, 2258
Burnett, William V., 4807
Burnett, W. J., 1721
Burr, Thomas J., 338
Busanyova, K., 13
Busch, Joseph D., 3614
Busscher, Henk J., 3810
Busse, Martin, 4812

Caballero, Primitivo, 3025
Caballero-Mellado, Jesus, 3676
Caccavo, Frank, Jr., 2502, 3837
Caldini, Gabriella, 2934
Caldwell, D. E., 3352
Caldwell, Douglas E., 2432
Calhoun, Aram, 3051
Calva, Edmundo, 4093
Calvete, Juan J., 2983
Calvo, Victor, 2071
Camacho, Francisco, 1124
Campbell, Janice J., 519
Campbell, L., 3600
Canada, Suzanne R., 996
Canfield, Marilyn L., 201
Canganella, F., 1088
Cangelosi, Gerard A., 4859
Cannio, Raffaele, 4020
Cappuccinelli, Piero, 2082
Carlson, Russell W., 1588
Carmichael, W. W., 3104
Carnicero, A., 3716
Carr, Cheri D., 3304
Carr, Noel G., 2411
Carras, M. M., 1467
Carrau, Francisco M., 2821
Carter, Philip E., 1195
Cary, Jeffrey W., 1349, 3548
Cary, S. Craig, 1124
Casadesús, Josep, 2082
Casaus, Pilar, 4321
Casellas, Merce, 819
Castro, Dolores, 1449
Catala, Philippe, 3274
Cavanaugh, Colleen M., 91, 1028
Cavin, Jean-François, 1939
Cayley, Jane, 4413
Cayuela, Chantal, 1725
Cazau, Maria C., 2906
Centis, Sylvie, 2287
Cerdan Malo, A. T., 2549
Cerdá-Olmedo, Enrique, 3657
Cerniglia, Carl E., 2495, 2906, 3919, 4099
Céspedes, Ricardo, 227
Cha, Jae-Soon, 71
Chai, Tuu-jyi, 2372
Chambon, Martine, 3199
Champine, James E., 2870
Chanama, Suchart, 4833
Chang, In Seop, 1
Chang, Jeng, 4010
Chang, Michelle C., 888
Chang, Ming Chung, 3851
Chang, Perng-Kuang, 1349
Chang, Sung K., 3732
Chang, Tsong Min, 3851
Chang, Wei, 4456
Chang, Wen-Tsu, 380
Chapman, John W., 615
Chapman, P. A., 2549
Charbonne, Françoise, 3199
Chary, Vasant K., 2977
Chaudri, Amar M., 39
Chaufaux, Josette, 779
Chen, Feng, 4907
Chen, Huizhong, 628, 4721
Chen, Jienan, 3941
Chen, Shaolin, 2442
Chen, X. J., 3978
Chen, Yuhuan, 524, 4770
Cheng, Hans, 4516
Cheng, Li-Chuan, 4010
Cheng, Li-Yao, 4282
Chengappa, M. M., 4671
Cheong, Hosun, 3254
Chernin, Leonid S., 834
Chet, Ilan, 834, 2095
Chhabra, S. R., 2281
Chiarini, L., 4485
Chien, Chih-Ching, 3021
Chikindas, Michael L., 305
Chilton, William Scott, 201
Chilton, W. Scott, 4578
Chiou, Robin Y.-Y., 1083
Chirat, Frédéric, 3512
Chitwood, David J., 2826
Cho, Myung-Je, 4866
Chohnan, Shigeru, 553
Choi, A., 3352
Choi, Sang Ho, 3308
Choi, Yang-Mun, 4282
Choi, Yeo-Jeong, 4866
Choli-Papadopoulou, T., 4872
Chone, Therese, 2729
Chowdhury, M. A. R., 3323
Chraibi, Widad, 2159
Christensen, Henrik, 2189
Christiansen, Bettina, 2439
Chu, Fun Sun, 1058
Chuang, Yin Ching, 3851
Churchill, Perry F., 4993
Ciccozzi, Massimo, 4102
Cintas, Luis M., 4321
Ciuffetti, Lynda M., 3059
Ciulla, Rose A., 220
Clark, Douglas S., 3985, 4075
Clarke, James R., 263
Claude, Alejandro A., 1883
Clavero, M. Rocelle S., 1953
Claxton, Larry D., 1389
Cleveland, Thomas E., 1349, 3548
Clewell, D. B., 1667
Cliver, Dean O., 3134
Clough, Steven J., 844
Coakley, Mairéad, 1434
Coates, John D., 3589
Cocaign-Bousquet, M., 2665
Cohen, M. B., 1453
Cohen, Paul S., 1389
Collins, Patrick J., 2543, 3444
Collmer, Alan, 338
Colombo, Cristiano, 2232
Colwell, Rita R., 3323
Colwell, R. R., 3585
Comas, J., 4608
Condee, Charles W., 4216
Conder, Michael J., 1307
Condón, S., 3225
Condón, Santiago, 2246
Condon, Séamus, 4210
Conn, David Bruce, 2910
Connell, Tracy L., 4346
Content, J., 4392
Contreras, B. G. L., 13
Conway, Tyrrell, 3519
Cook, Alasdair M., 2016, 2403
Coolen, Marco J. L., 931
Coon, S. L., 4107
Cooper, M., 2281
Copeland, Les, 3432
Copley, Shelley D., 1883
Corio-Costet, Marie-France, 2966
Cormier, M., 1794
Cornelis, Kris, 945
Cornelis, P., 4340
Corrieu, Georges, 2293
Corstjens, P. L. A. M., 4793
Coschigano, Peter W., 652
Costello, Andria M., 4617
Cottrell, Bryan, 1657, 4952
Cottrell, Matthew T., 1124
Cotty, Peter J., 3548
Courtois, Bernard, 21
Courtois, Josiane, 21
Coyle, Tové C., 2477
Crandall, Allison D., 2654
Cranfield, Michael R., 2910
Cravioto, Alejandro, 4093
Crawford, Ronald L., 2100, 4833
Cresswell, Neil, 1288
Cresti, Stefania, 2934
Cromeans, Theresa L., 2460
Cronin, Don, 1357
Crowley, David E., 277, 1933
Crundwell, F. K., 2586
Crupper, Scott S., 4185
Cue, David, 1406
Cullen, D., 2913
Cullen, William R., 3378
Cuppels, Diane A., 4462
Cuppers, Henk G. A. M., 3764
Curry, Sadie S., 3059
Curry, Shawn R., 4313
Daae, Frida Lise, 3367
Daane, L. L., 679
Dabert, Patrick, 2802
Da Costa, Milton S., 851, 896
Dahan, Edith, 4883
Dahlberg, Cecilia, 4692
Dalmastri, C., 4485
Dalsgaard, A., 1674
Dalsgaard, Inger, 3711
Dalton, Helen M., 3698
Damborsky, Jiri, 3707
d'Amico, Nicola, 3144
Dandurand, L. M., 3211
Daniels, Brent, 694
Das, N., 4120
Datta, Atin R., 4123
Davidson, Seana K., 4612
Davidsson, Torbjörn Emil, 3648
Davies, Julia M., 1312
Davis, F. C., 355
Davis, R. E., 2625, 2631
Dawel, Grit, 2560
Dawes, Ian W., 3818
Dawson, K. A., 1483, 2949, 4355
Dawson, Scott C., 4075
Day, William A., Jr., 1019
Dean, D. H., 1453, 3978
Dean, Ralph A., 3548
de Beer, Dirk, 973
De Boer, Wietse, 1489, 3872
de Bont, Jan A. M., 1987
de Brouwer, Jody F. C., 4734
Deck, Joanna, 2906, 3919
Défago, Geneviève, 213, 3776
De Greve, H., 4340
Deguchi, Tetsuya, 329
Deguchi, Y., 4986
de Jong, Ed, 3804
de Koning, Wim, 4961
de la Bastide, Paul Y., 3426
de la Fuente, G., 3716
de la Fuente, Juan L., 2977
De La Fuente, Leonardo, 834
de Lajudie, Philippe, 1040
Delécluse, A., 468
Delécluse, Armelle, 4449
de Leeuw, Jan W., 3090
De Leon, Ricardo, 106, 2029
Delmas, Françoise, 609
DeLong, Edward F., 50, 2105
de los Reyes, Francis L., 1107
Délye, Christophe, 2966
Demain, A. L., 4090
Demeyer, D., 194
Demirci, Ali, 2516, 2524
De Mot, René, 1911
Deng, Ming Qi, 3134
Denger, Karin, 2016
Denis-Larose, Claude, 2915
Denny, Timothy P., 844
DePaola, Angelo, 2464
de Prada, Paloma, 2928
de Reu, Johan C., 178
de Roo, Guy, 561
Dervyn, Etienne, 4413
Desbruyères, Daniel, 1124
De Schrijver, Adinda, 1911
Desiere, Frank, 3144
Desjardins, Anne E., 1838
Desmazeaud, Michel, 2293
de Souza, Mervyn L., 916
Devereux, Richard, 3895

de Vos, Willem M., 4020, 4581
Devreese, B., 13
de Vries, R. P., 4638
de Vrind, J. P. M., 4793
de Vrind-de Jong, E. W., 4793
De Vuyst, L., 13
de Wolf, Johan, 1225
De Wulf-Durand, Pascale, 2944
de Zwart, Jolyn M. M., 3318
D'Haese, E., 4116
Diaz, Eugenia Carnero, 840
Diaz, Mara R., 220
Di Cello, F., 4485
Dickinson, Wayne H., 2502
Dickman, M. B., 2378
Dickson, James S., 2516
Dietz, K., 1219
Diez, Jesús, 3385
Dijkhuizen, L., 956
Di Lecce, Cinzia, 3279
Dillen, C., 1808
Dillingham, Richard L., 1406
Dion, Patrice, 4578
Diviès, Charles, 609, 793, 1939
Djordjevic, G. M., 4370
Dobson, Alan D. W., 2543, 3444, 4287
do Carmo Antunes-Madeira, Maria, 4948
Doerner, Kinchel C., 1185
Doi, Yoshiharu, 4844
Doll, J., 233
Dols, Marguerite, 2159
Domach, M. M., 710
Donald, K. Allen G., 3341
Donald, Kirsten M., 2411
Donato, Maria Manuel, 4948
Dong, Guoqiang, 3569, 3577
Donnelly, Catherine W., 3695
Donnelly, Mark I., 2695
Donovan, William P., 2311
Dosoretz, Carlos G., 857
Dott, Wolfgang, 4567
Dougherty, M. J., 2913
Douglas, A. E., 3294
Dowling, David N., 1357
Dowling, D. N., 4261
Doyle, Michael P., 27
Drake, Harold L., 1878
Drebot, Michael A., 519
Dreyfus, Bernard, 1040
Dreyfus, Bernard L., 1151
Drocourt, Jean-Louis, 178
Drotschmann, Ulrich, 4150
Dubitsky, Anatoly, 4883
Dubois, E., 1794
Dudley, Edward G., 3438
Duffaud, Guy D., 169
Dufour, Alain, 4252
Dukan, Sam, 4204
Dulac, G. C., 3916
Dumestre, Alain, 2729
Dunbar, John, 1326
Duncan, Callum, 924
Dunkle, Larry D., 996
Dunne, Colum, 1357
Duque, Estrella, 2071
Durham, Don R., 2832
Dustman, Wendy A., 4907
Dykhuizen, Roelf, 924

Ebdrup, Lone, 1195
Ebert, Andrea, 4039
Ebert, Sara, 1785
Eddington, D. L., 3916
Edmiston, Lee, 2607
Egli, T., 2619
Ehrlich, S. Dusko, 2111, 2117
Eichner, M., 1219
Eisenstein, Miriam, 524
Eisgruber, H., 3992
Ekinci, M. Sait, 3752
Ekino, Keisuke, 2940
El Fantroussi, Säid, 806
Elkins, James G., 4978
Ellis, Denise M., 2925
Elskens, Marc T., 2857
Embley, T. Martin, 1489, 4729
Emerson, David, 4784
Emerson, Nathan, 4945
Emödy, Levente, 2047
Emond, Eric, 1274
Eppert, Ilka, 4812
Eppink, M. H. M., 4079
Erbeznik, M., 2949
Erickson, Bruce D., 3096
Eriksson, Karl-Erik L., 3950
Erlandson, Karn, 2702
Esaki, Hidetake, 2155
Esaki, Nobuyoshi, 4651
Eslava, Carlos, 4093
Espejo, Romilio T., 332, 1344
Esquerre-Tugaye, Marie-Therese, 2287
Essig, Andreas, 1396
Estruch, Juan J., 532
Euverink, G. J. W., 956
Evans, Jeff D., 4853
Evans, Robert S., 3895
Evans, W. R., 3104
Evison, Tim, 2439
Eyal, O., 990

Fach, Patrick, 4232
Faigle, M., 1219
Fajon, Céline, 3274
Falcón, M. A., 3716
Falholt, Per, 3724
Fang, A., 4090
Fani, R., 4485
Fantasia, Mirella, 4102
Farkas, Tibor, 2826
Farley, C. Austin, 2086
Farmer, William R., 3205
Farrand, Stephen K., 602
Faude, Uwe C., 4534
Faulds, C. B., 4638
Faulds, Craig B., 208
Favre, Nicole, 3512
Fayard, Blandine, 3246
Fayer, Ronald, 2086, 2910
Fedi, S., 4261
Fedorak, Phillip M., 3032, 3170, 3463
Feijoo, Gumersindo, 1749
Felbeck, Horst, 3494
Feng, Xiuhong, 1332
Feng, Yucheng, 4096
Fenicia, Lucia, 1148
Fenton, Anne, 1357
Ferguson, Donna M., 2029
Ferguson, G. P., 4083
Fernández-Abalos, José M., 2983
Fernández-Esplá, M. D., 314
Fernández-Larrea, Juan B., 2637
Ferrandis, M. D., 2997
Ferré, Juan, 1814
Ferris, Mike J., 2347
Ferris, M. J., 1367, 1375
Fesefeldt, Andreas, 335
Fiebig, Douglas M., 1318
Field, Jim A., 1749, 1987, 2543, 3301
Field, K. G., 63
Filer, Keith, 317
Filetici, Emma, 4102
Findlay, Margaret, 4511
Fiorella, Paul D., 2007
Fischer, Elizabeth R., 3933
Fischer, Peter, 1421
Fischer, Randy S., 567
Fishbain, Susan, 1498
Fitzgerald, Gerald, 3246
Fitzgerald, Gerald F., 1244, 1434, 2454
Flahaut, Sigrid, 812
Flaherty, J. E., 3995
Flambard, Benedicte, 2131
Flavier, Albert B., 844
Fletcher, Madilyn, 1762
Flickinger, Michael C., 1406
Flikweert, Marcel T., 3399
Flint, Harry J., 3405, 3752
Flynn, K. J., 239
Focht, Dennis D., 2054
Fock, Ulrike, 1974
Fodor, András, 2826
Fodor, Elfrieda, 2826
Foegeding, P. M., 482
Fogel, Samuel, 4511
Foght, Julia M., 1785
Fonnesbech Vogel, Birte, 2189
Fonseca, Kevin, 519
Forbes, Kenneth J., 3405
Ford, Roseanne M., 3474
Formanek, Joseph, 2306
Forney, Larry, 3367
Forney, Larry J., 1326, 1515, 1523, 2266, 2863, 4516
Forsberg, Cecil W., 2449
Forst, Steven A., 962
Forster, Robert J., 1256, 1701
Forstner, Janet F., 506
Foucaud, Catherine, 301
Fox, Patrick F., 2468
Fox, P. F., 314
Fraaije, Marco W., 435
Framson, Paul E., 3539
Franciosa, Giovanna, 1148
Franco, J. M., 239
Francois, Alan, 301
Frank, Dara W., 1389
Franke, Christine A., 2477
Frankenberger, W. T., Jr., 3079
Franks, Diana G., 2105
Frazer, Anne Cornish, 296
Fredrickson, James K., 1498
Freiermuth, B., 4627
Frenzel, Peter, 1199, 4552
Freudl, Roland, 2814
Frey, Joachim, 703, 2258
Frey, Pascal, 1852
Frey-Klett, Pascale, 139, 1852
Friedlin, Ernst, 753
Friedman, Debra, 3669
Friedrich, Bärbel, 800
Fries, Marcos R., 1515, 1523
Fritsche, Wolfgang, 2560, 2906, 3919
Fritz, Irving B., 3341
Fromentier, Didier, 414
Frostegård, Åsa, 2224
Frutos, R., 2997
Fry, Norman K., 1498
Fuchs, Bernhard, 3268, 4223
Fuchs, Florence, 3199
Fuentes-Ramirez, Luis E., 3676
Fuerst, John A., 254
Fuhrman, J. A., 77
Fuhrman, Jed A., 1208, 2735
Fuji, Fumie, 3282
Fujii, Jun, 2489
Fujii, Nobuhiro, 1214
Fujii, Toshio, 910
Fujimoto, Haruhiro, 3825
Fujio, Tooru, 553
Fujiwara, Shigeru, 506
Fujiwara, Shinsuke, 785, 2472
Fukano, Yasufumi, 1861
Fukui, Toshiaki, 4844
Fukumori, Fumiyasu, 1189
Fuller, Mark E., 4015
Fulthorpe, Roberta R., 2266
Furuhashi, M., 1633
Furukawa, Hideki, 553
Furukawa, Kensuke, 2940
Furukawa, Shinobu, 910
Furusawa, Iwao, 351
Furuta, Masakazu, 1551

Gaballa, A., 4340
Gabbert, Karen K., 3003, 3010
Gagnevin, Lionel, 246
Gahan, Cormac G. M., 2679, 4945
Gajardo, R., 3119
Gal, Laurent, 903
Galkin, Andrey, 4651
Gallacher, S., 239
Galli, Enrica, 2232, 3279
Galperin, Michael Y., 969
Galzy, Pierre, 2779
Gambacorta, Agata, 1230
Ganesh, Rajagopalan, 4385
Garay, Esperanza, 2600
Garbaye, Jean, 139, 1852
García, Encarnación, 3499
Garcia, Manuel M., 4558
Garcia, T., 1034
Garcia-Acha, I., 3189
Garcia-Pichel, Ferran, 3327
Gardner, Ian A., 3946
Garmyn, Dominique, 609
Garvey, Patricia, 1244
Garza, D. Randy, 2200
Gasent-Ramírez, José M., 4800
Gaskell, J., 2913
Gaudin, Christian, 903
Gauthier, Daniel, 1610
Gauthier, Debbie, 4132
Geertsema-Doornbusch, Gésinda I., 3810
Geesey, G. G., 4600
Geider, Klaus, 4421
Geier, Dorothee, 2175
Genco, Robert J., 2318
George, S. Elizabeth, 1389

Georghiou, George P., 1095
Gerard, Mylene, 2729
Gerards, Saskia, 931, 3858
Gerba, Charles P., 324
Gerdes, Kenn, 1917
Gettinby, George, 1048
Gevertz, Diane, 1785
Ghiorse, W. C., 2330
Ghiorse, William C., 644, 724, 3844
Ghosh, Mousumi, 817
Ghosh, S., 4523
Giard, Jean-Christophe, 812
Gibson, David T., 2067
Gies, Allen J., 4185
Gilbert, Eric S., 1933
Gilbert, Harry J., 208
Gilewicz, Michele J., 636
Gill, Sarjeet S., 3254, 4664
Gill, Tom, 1155
Gillespie, Harold A., 2175
Gillman, Mark, 4267
Gilmour, Ian, 1389
Gioia, Octavio, 2821
Giovannoni, S. J., 63
Giovannoni, Stephen J., 694, 983, 1118, 1441
Girdwood, R. W. A., 1631
Givaudan, A., 574
Gliesche, Christian G., 335
Glover, L. A., 2281
Godchaux, Walter, III, 3021
Godon, Jean-Jacques, 2802
Goel, A., 710
Golden, Michael, 924
Golightly, Elizabeth J., 3151
Goma, Gérard, 2671
Gomelsky, Mark, 4713
Gomis, M. D., 3189
Gong, Jianhua, 1256
González, Aldo E., 2637
González, Bernardo, 227
González, José M., 4237, 4907
Good, R. T., 1874
Goodman, A. E., 2989
Goodman, Amanda E., 3698
Gopal, Pramod K., 3757
Gordon, D., 63
Gorris, Leon G. M., 2074, 3628
Goto, Masatoshi, 2940
Gottschal, Jan C., 474
Götz, A., 1980
Götz, Friedrich, 3553
Götz, Harald, 4812
Gouesbet, Gwenola, 4657
Gouffi, Kamila, 4657
Gouka, Robin J., 488
Gould, F. L., 1453
Gourgand, Jeanne Marie, 3199
Gqaleni, Nceba, 1048
Graczyk, Thaddeus K., 2086, 2910, 2925
Gradišnik-Grapulin, Majda, 2844
Graessle, Stefan, 753
Gram, Lone, 1155, 2189, 3724
Granero, Francisco, 1814
Grant, Chris M., 3818
Grant, M. A., 3526
Gray, J. S., 1102
Gray, N. D., 1905
Greer, Charles W., 2915, 3719
Griffin, Dale W., 4564
Griffiths, Steven G., 3770
Grifoll, Magdalena, 819, 1175
Grim, C., 3585
Grimm, Ann C., 4111
Gringorten, Larry, 4132
Gripon, Jean Claude, 414
Grondona, I., 3189
Groppe, Kathleen, 1543
Gross, Dennis C., 2771
Grossman, Matthew J., 2915
Gruhl, Bärbel, 1732
Gsell, Timothy C., 3111
Gu, Wei, 567
Guard-Petter, Jean, 1588
Guerchicoff, Alejandra, 2716
Guérin, Jean-Pierre, 3144
Guidetti, Janet R., 4346
Guillén, F., 2166
Guindulain, T., 4608
Gundersen, D. E., 2625
Gundersen-Rindal, D. E., 2631
Gunnewiek, Paulien J. A. Klein, 931
Gunsalus, Robert P., 2252
Günther, Wolfgang, 2560
Gurijala, Koteswara R., 3797
Guschin, Dmitry Y., 2397
Gutiérrez, Juan Carlos, 1602
Guzmán, Carlos A., 122
Guzzo, Jean, 609
Gwilliam, Heather G., 254

Haandrikman, Alfred J., 305
Haas, Dieter, 213
Haas, Hubertus, 753
Habouzit, Frédéric, 2802
Hacker, Jörg, 703, 2047
Hadar, Yitzhak, 857, 2495
Haedens, V., 4392
Hagen, Kari D., 3957
Hagenau, Claudia, 547
Häggblom, Max M., 3911
Hagler, Allen N., 1945
Hagström, Åke, 3359
Hagting, Anja, 2213
Hahn, Dittmar, 2136
Hahn-Hägerdal, Bärbel, 1959
Haïdour, Alí, 2071
Haiker, Monika, 1696
Haimberger, Zara W., 983
Hajjaj, Hassan, 2671
Haldeman, Dana L., 3128
Halio, Sheryl B., 289
Halkier, Torben, 3151
Hamada, Nobushiro, 2318
Hamamura, Natsuko, 3607
Hamlin, April M., 4859
Hammel, Kenneth E., 1175, 4435
Hammer, Karin, 1826, 2439
Hammer, Philip E., 2147
Hampton, Randolph Y., 3341
Han, Chae J., 2391
Hanai, Katsuyuki, 775
Hanau, Robert M., 4001
Handojo, Troy J., 2029
Häner, Andreas, 1171, 2077, 2136
Hanlin, Richard T., 3950
Hansen, J. Norman, 3965
Hanson, Richard S., 1406
Hansson, Marianne, 2481
Haran, Shoshan, 834
Haras, Dominique, 4252
Hardison, Linda K., 3059
Harfoot, Chris G., 3333
Harker, Alan R., 317
Harkin, M., 2549
Harmon, Barry G., 27
Harms, Hauke, 4053
Harmsen, Hermie J. M., 2876, 4061
Harper, Jennifer P., 4993
Harren, Frans, 4243
Harriott, Olivia T., 296
Harris, L., 757
Hart, L. Patrick, 263
Hartke, Axel, 812
Hartman, Petr, 587
Hartmann, A., 2038
Hartmans, Sybe, 3301, 4287
Hartzell, Patricia L., 3158
Harvey, P. I., 2586
Harwood, Caroline S., 4111
Hashiba, Honoo, 506
Hassan, Hosni M., 3732
Hasselrot, Anders T., 1318
Hatziloukas, E., 1467
Hauben, Kristel J. A., 945
Haugan, Kåre, 370
Haugarreau, L., 1794
Haugland, Richard P., 2897
Hausinger, Robert P., 1189
Hayashi, Hiromi, 454
Haygood, Margo G., 4612
Hayman, J. A., 4135
Hazlewood, Geoff, 208
He, Wen, 3480
He, Zhongqi, 4839
Head, I. M., 1905
Healy, Áine, 2468
Heckert, R. A., 3916
Hefford, Mary Alice, 1701
Heidelberg, J. F., 3585
Heinaru, A., 4899
Heinaru, E., 4899
Heinemann, Markus, 1396
Heinze, Petra, 3246
Heinze, Thomas M., 2906, 3919, 4099
Held, Bruce, 2798
Heldal, M., 2181
Helinck, Sandra, 2124
Helinski, Donald R., 888
Hellmann, Bettina, 1011
Henderson, Allison L., 4099
Heng, Nicholas C. K., 3336
Henkels, Marcella D., 99
Henquell, Cécile, 3199
Henriksen, Kaj, 874
Henriksson, Gunnar, 3950
Henzler, David J., 1588
Herbort, Markus, 2814
Herlache, Thomas C., 338
Herman, David C., 3622
Herman, Lieve M. F., 3139
Herman, Patricia L., 1623
Hermansson, Malte, 1168, 4692
Hermosa, R., 3189
Hernández, Pablo E., 4321, 4990
Herndl, Gerhard J., 4026, 4178
Herrick, J. B., 2330
Hersman, Larry E., 3128
Herson, Diane S., 1925
Hespell, R. B., 355
Hess, Annatina, 2136
Heuer, Holger, 3233
Heulin, Thierry, 1852
Heyberger-Meyer, Bénédicte, 2258
Hickey, R. F., 270
Hickey, W. J., 3866
Higashida, Katsuya, 4471
Hill, Colin, 1244, 2679, 4945
Hill, D. Steven, 2147
Hill, Karen K., 1400
Hines, H. B., 239
Hines, Mark E., 3895
Hino, Tsuneo, 2155
Hintikka, E.-L., 387
Hinz, Paul N., 2516, 2524, 2533
Hiorns, William D., 2957
Hippe, H., 1088
Hirano, Susan S., 4304
Hirano, Yuriko, 1820
Hiratsuka, Koji, 4558
Hirose, Y., 4986
Hirota, Tetsuji, 506
Hirrlinger, Beate, 3390
Hirsch, Penny R., 4573
Ho, Kai-Lai G., 2516, 2524, 2533
Hodson, Robert E., 4907
Hoefs, Marcel J. L., 3090
Hofemeister, Jürgen, 3902
Höfle, Manfred G., 4534
Höflich, G., 2038
Höhener, Patrick, 1171, 2077, 2136
Hohn, Thomas M., 1685
Høi, L., 1674
Hoitink, Harry A. J., 162
Højberg, Ole, 2920
Holben, William, 321
Holben, William E., 3111
Holfeld, Harald, 1318
Hollender, Juliane, 4567
Holler, Barbara J., 1274
Hollingsworth, Rawle I., 403
Holmstrøm, Kim, 4196
Holt, Peter-John, 2062
Holtwick, Rita, 4292
Hopkins, Gary D., 1515, 2863
Hopp, Johanna, 4567
Horgen, Paul A., 3426
Horinouchi, Sueharu, 1131, 1139
Horneck, G., 4377
Horvais, Alain, 498
Horváth, László I., 2826
Hosbond, Carsten, 4920
Hosoda, Junji, 454
Hotchkiss, Arland T., Jr., 338
Hovde, Carolyn J., 3878
Howlett, Niall G., 2971
Hruby, Dennis E., 2477
Huber, Harald, 896
Huber, Ingrid, 2884
Huber, Mary S., 324
Huber, Robert, 896
Hudault, Sylvie, 513, 2747
Huddleston, Annaliesa S., 1288
Huerta, T., 364
Hugenholtz, Philip, 254
Hughes, Deborah S., 3494
Hugh-Jones, Martin E., 1400
Hugouvieux, Veronique, 2287
Huirong, Liu, 4971

Humanes, Lourdes, 3385
Humphreys, N. J., 3294
Huni, Boris, 3144
Hunt, Carl W., 3878
Huq, A., 3323
Hur, Hor-Gil, 1606
Hurd, Margaret, 1598
Hurek, Thomas, 4331
Hutkins, Robert W., 543
Huygen, K., 4392
Huys, Geert, 2708
Håvarstein, Leiv Sigve, 4321
Hwang, Ingyu, 602
Hwang, Sheng-Ping L., 4010
Hylemon, Phillip B., 1185
Hyman, Michael R., 3059, 4588
Hynes, S. H., 4158

Iandolo, John J., 4185
Iannotti, Donna A., 162
Ibeas, Jose Ignacio, 7
Iio, Takashi, 661
Iizuka, Toshihiko, 1054
Iizumi, Taro, 1777
Ilmén, Marja, 1298
Imanaka, Tadayuki, 785, 2472, 4504
Imao, Yumiko, 454
Inamori, Yoshihiko, 661
Indoh, Tomokazu, 1214
Ingham, S. C., 3352
Ingledew, W. M., 4158
Ingram, L. O., 355
Ingram, Lonnie O., 4633
Inoue, Hiroaki, 4504
Inoue, Katuhiro, 1214
Inoue, Yoshio, 4844
Intven, Lucienne M., 4741
Iqbal, Muhammad, 1814
Ishii, Yoshinori, 454
Ishii, Yoshitaka, 3164
Ito, Makoto, 1861
Ito, Yoshiyuki, 4593
Itoh, Hisao, 1594
Itoh, Nobuya, 3783
Itoh, Yoshifumi, 4087
Iversen, Niels, 874
Iwai, Yuzuru, 3825
Iwamoto, K., 4793
Iwata, Tadahisa, 4844
Iwato, M., 4986
Iyo, Abiye H., 2449
Izaguirre, Gonzalo, 3965
Izu, Kunio, 2489

Jackson, Colin R., 4993
Jackson, Paul J., 1400
Jacobi, Christoph A., 719
Jacobs, Daniel, 2754
Jacobsen, Susanne, 1826
Jacques, Marie-Agnès, 1570
Jacques, Philippe, 1739
Jacquet, Stephan, 186
Jahnke, K. D., 1088
Jahnke, Linda L., 2952
Jain, Mahendra K., 403
Jakobsen, Iver, 3531
Jakobsen, Kjetill S., 2593
Jakubowski, Walter, 3669
Jallat-Archimbaud, Christine, 3199
Janse, B. J. H., 2913
Janssen, Dick B., 4961
Janssen, Paul, 2708
Janssen, Peter H., 1382, 4552
Jaquette, Cynthia B., 1953
Jaspers, Elke, 3176
Jaspers, Marco C. M., 4053
Jayaswal, Radheshyam K., 1889
Jeanthon, Christian, 2876, 4061
Jebbar, Mohamed, 4657
Jemmi, Thomas, 1338
Jenkins, Michael B., 3844
Jenkinson, Howard F., 3336
Jenneman, Gary E., 1785
Jensen, Kenneth A., Jr., 4435
Jensen, Roy A., 567
Jeong, Kwang Cheol, 3308
Jetten, Mike, 2446
Jetten, Mike S. M., 4360
Jiang, Sunny C., 133
Jiang, Xiuping, 2372
Jimenez, Juan, 7
Jiménez, M., 364
Jimenez-Salgado, Teresita, 3676
Jobin, Michel-Philippe, 609
Joens, Lynn A., 1019
Johansen, Charlotte, 1155, 3724
Johns, Michael R., 2759
Johnson, C. H., 4969
Johnson, Eric A., 461
Johnson, Glenn R., 3736, 4047
Johnson, P. D. R., 4135
Johnston, Peter, 924
Joint, Ian, 2411
Jones, A. L., 4604
Jones, Alison M., 2915
Jones, C. R., 2949
Jones, J. G., 1905
Jongsareejit, Boonsri, 2472
Jordan, L. T., 3916
Jørgensen, Kirsten, 2189
Joseph, Cecillia M., 4573
Joux, Fabien, 2686, 3274, 3643
Juárez-Pérez, V. M., 2997
Juillard, Vincent, 2124, 2131
Juneja, Vijay K., 4441
Junker, Frank, 2403
Jurado, Amália S., 4948
Juretschko, Stefan, 3268
Jurgens, G., 803

Käch, A., 2619
Kado, Clarence I., 71
Kahn, Michael L., 4978
Kaiser, Edith, 4026
Kajikawa, Hiroshi, 1847
Kakezawa, Masaaki, 329
Kakihara, Hirofumi, 4504
Kakizono, Toshihide, 4471
Kalif, Abdullahi S., 1400
Kalmbach, Sibylle, 4164
Kalmokoff, M. L., 394
Kamada, Nozomu, 1820
Kamagata, Yoichi, 2266
Kamasawa, Naomi, 1362
Kambe, S., 1898
Kamijoh, Yuri, 4127
Kamlage, Beate, 1732
Kanai, Tamotsu, 4956
Kanaly, Robert, 4511
Kaplan, Samuel, 4713
Karl, Wolfgang, 4272
Karley, Alison J., 1312
Karner, Markus, 1208
Karns, Jeffrey S., 2832
Karp, Matti, 4456
Karsens, Harma, 2722
Karsten, Gudrun R., 1878
Kaspar, Charles W., 2607
Kästner, Matthias, 2560
Kasuya, Ken-Ichi, 4844
Kathariou, S., 1077
Kathariou, Sophia, 3085
Kato, Nobuo, 1715
Kaufmann, Peter, 1268
Kawaguchi, Tomoko, 4956
Kawai, Shingo, 4435
Kawakami, Bunsei, 4504
Kawashima, Hiroshi, 1820
Keasling, J. D., 1689, 4075
Keck, Andreas, 3684, 3691
Keel, Christoph, 3776
Keeton, Timothy P., 3419
Keiding, Kristian, 3837
Keim, Paul, 1400
Kelley, Jacqueline I., 84
Kellogg, Christina, 133
Kelly, Denise, 924
Kelly, Robert M., 169, 289, 1160, 2391
Kelso, Beverley H. L., 4679
Kersters, Karel, 2708
Kester, Harry C. M., 2507
Kester, Ronald A., 3872
Kew, Olen M., 519
Keweloh, Heribert, 4292
Keyhani, Salomeh, 1689
Khamraev, Allovuddin, 4883
Kieft, Thomas L., 1531, 3128
Kiene, L., 978
Kikuchi, Yoshimi, 761
Killham, Kenneth, 924
Kilstrup, Mogens, 1826
Kim, Byung Hong, 1
Kim, Chang-Jin, 1744
Kim, Choon Mee, 3308
Kim, Craig S., 1917
Kim, Jongseol, 1771
Kim, Kyung-Hee, 4866
Kim, Seung-Hee, 4866
Kim, Suk Am, 3432
Kimura, Katsunori, 3394
Kimura, Tetsuya, 2089
King, Gary M., 3051
King, Linda L., 3090
Kingombe, C. Isigidi Bin, 4558
Kinkle, Brian K., 3123
Kirchman, David L., 408
Kirstein, F., 1102
Kiss, Zsuzsanna, 2826
Kistler, H. Corby, 3311
Kitabayashi, Masao, 4504
Kitisakkul, Sitsari, 4075
Kjelleberg, S., 1034
Kjelleberg, Staffan, 749, 2754
Klaébé, Alain, 2671
Klaenhammer, T. R., 4370
Kleerebezem, Michiel, 4581
Klein, Joachim, 3684, 3691
Klein, Michael, 2814
Klein, Patricia G., 4441
Klenk, Hans-Peter, 321
Klepzig, Kier D., 621
Klier, André, 4413
Klis, Frans M., 615
Kloepper, J. W., 1617
Knackmuss, Hans-Joachim, 1421, 3684
Knight, Bruce P., 39
Knudsen, G. R., 3211
Kobayashi, Hideki, 3637
Kobayashi, Kei, 1428
Kobayashi, Masato, 1428
Kobayashi, Osamu, 910
Kobayashi, Yasuo, 1701
Koch, Birgit, 2439
Koch, R., 1088
Koedam, N., 4340
Koenig, D. W., 4090
Koga, Shinji, 4282
Koh, Sung-Cheol, 2054
Kohda, Katsunori, 785
Kok, Jan, 305, 2722, 4877
Kokjohn, Tyler A., 1551
Köljalg, U., 387
Kolter, Roberto, 4543
Komagata, Kazuo, 4941
Komatsoulis, George A., 2338
Komova, O., 4377
Kondo, Jeffrey K., 1274
Kondo, Koichi, 1131, 1139
Konings, Wil N., 2213
Konishi, Jin, 3164
Konishi, Kyoko, 1820
Konishi, Tohru, 1715
Kononen, Kaisa, 1647
Koopman, Ben, 3941
Kopecka, H., 1794
Korber, Darren R., 2432
Korber, D. R., 3352
Korkeala, H., 3992
Korkeala, Hannu J., 448
Koskella, J., 3561
Kosono, Saori, 3282
Köster, Frank, 800
Kovacik, William P., Jr., 3128
Kovářová, K., 2619
Kowalchuk, George A., 1489, 3858
Koziel, Michael G., 532
Kozubek, S., 4377
Kraakman, Bart, 162
Kragelund, Lene, 4920
Kranz, Robert G., 3003, 3010
Krasavin, E. A., 4377
Krause, Birgit, 2613
Krause, Denis O., 1143
Krogfelt, Karen A., 1389
Kroon, P. A., 4638
Kroon, Paul A., 208
Kropp, Kevin G., 3032, 3463
Krovacek, Karel, 2708
Krsek, Martin, 3233
Krueger, Dana M., 91
Krumholz, Lee R., 1627
Kubo, Yasuyuki, 351
Kubota, Toru, 1214
Kudlich, Michael, 3684, 3691
Kudo, Toshiaki, 3282, 4941
Kudva, Indira T., 3878
Kuenen, J. Gijs, 2300, 2446, 3318
Kuflu, Kuflom M., 4462
Kühl, Michael, 973
Kühn, Inger, 2708
Kuhnert, Peter, 703, 2258
Kuipers, Oscar P., 4581
Kulakova, Ljudmila, 4651
Kullman, Seth W., 2741
Kumar, H. D., 2324
Kunji, Edmund R. S., 2213

Kurahashi, Osamu, 761
Kürnsteiner, Hubert, 753
Kuroda, Itaru, 351
Kurtti, Timothy J., 3926
Kuske, Cheryl R., 1400, 3614
Kuttin, E., 990

Laanbroek, Hendrikus J., 931, 3872, 4734
Labare, M. L., 4107
Labarère, Jacques, 4686
Labbé, Diane, 2915
Labeda, David P., 3887
Lacey, John, 1048
Lafitte, Claude, 2287
Laguerre, Gisèle, 4748
Lagunas, Rosario, 3831
Lai, Roger, 2252
Lai, Xiaokuang, 355, 4633
Laigret, Frédéric, 2966
Laivenieks, Maris, 2273
Lam, Hong, 1406
Lam, Stephen T., 2147
Lammerding, A. M., 757
Lammertyn, E., 1808
Lanciotti, Eudes, 2934
Landstein, Dorit, 1551
Lane, Les, 1551
Lange, Jeffrey L., 1557
Lanoil, Brian D., 1118
Lanois, A., 574
LaPaglia, Christopher, 3158
Laprade, R., 440, 3978
Laprade, Raynald, 1679
Larkin, M. J., 151
LaRossa, Robert A., 2566
Larsen, Frank, 2593
Larsen, Jens Laurits, 1460, 3711
Larsen, J. L., 1674
Larsen, Michael Elleskov, 2366
Larsson, Lennart, 2554
Lau, Peter C. K., 2915, 3286
Laue, Heike, 2016
Laughlin, Ronald J., 4679
Lauret, Roberte, 2111
Lauwers, S., 4585
Laux, David C., 1389
La Voie, Crystal P., 1185
Lawlor, D. T. M., 145
Leach, Jan E., 246
Leadbetter, E. R., 3021
Leahy, Joseph G., 3736
Lebaron, Philippe, 2686, 3274, 3643
Lebbink, Joyce, 4020
Leblon, G., 4392
Lecocq, Michèle, 763
Leduc, Pascal, 169
Lee, Gyun Min, 2578
Lee, Hyun-Ku, 4664
Lee, I.-M., 2625, 2631
Lee, In-Young, 4191
Lee, J., 710
Lee, Kyoung, 2067
Lee, Mi Kyong, 1453
Lee, Rachel, 1058
Lee, Sang Yup, 3703, 4765
Lee, Spencer H. S., 519
Lee, Sung-Taik, 2578
Lee, Woo-Kon, 4866
Leenhouts, Kees J., 305
Lefebvre, Gilles, 827
Legiša, Matic, 2844
Le Guyader, F., 1794
Lehning, Anja, 1974
Lehtimäki, Jaana, 1647
Lei, X.-H., 1077
Leifert, Carlo, 924
Leloup, Laurence, 2117
Lema, Juan, 1749
Le Marrec, Claire, 3246
Lemoine, Jérôme, 3512
Lenke, Hiltrud, 1421
Lennox, S. David, 4679
Leonardson, Lars, 3648
Leori, Guido, 2082
Le Pennec, Jean-Paul, 4252
Lereclus, Didier, 779
Lévi, Yves, 4204
Levin, M., 3585
Lewandowski, Z., 2502
Lewis, Earl J., 2086
Leyer, Gregory J., 461
Li, Bin, 796, 1623
Li, Hong, 924
Li, Shuxian, 3261
Li, Xin-Liang, 628, 4721
Liang, Shun-Hsin, 1058
Liao, James C., 3205
Lichanska, Agnieszka, 254
Lidén, G., 128
Lidstrom, Mary E., 4617
Liebert, Cynthia A., 1066, 4494
Liesack, Werner, 4704
Liévin, Vanessa, 513, 2747
Ligon, James M., 2147
Liljeqvist, Sissela, 2481
Lilley, Andrew K., 1577, 1584
Limsawat, Sunun, 2932
Limsowtin, Gäetan K. Y., 561
Linberg, Christel, 4692
Lindblad, Peter, 1801
Lindley, N. D., 2665
Lindley, Nicholas D., 2159, 2765
Lindsay, Margaret, 254
Lindström, K., 803
Linz, John E., 263, 1058
Liras, Paloma, 2977
Liu, Ting, 2449
Liu, Wen-Tso, 4516
Liu, Yong-Biao, 2218
Ljungdahl, Lars G., 628, 4721
Llorente, P., 1165
Lloyd, R. Stephen, 1551
Lloyd-Jones, Gareth, 3286
Lobos, John H., 3096
Locke, Terry A., 3003
Loessner, Martin, 3374
Loessner, Martin J., 2961
Löffler, Frank E., 2870, 4982
Logrieco, Antonio, 1843
Lomans, Bart P., 4741
London, Pam, 133
Londry, Kathleen L., 3170
Long, K. A., 1874
Long, Tulley, 3607
Loper, Joyce E., 99
López-Ruiz, Antonio, 3385
Loret, Marie O., 2671
Lorquin, Jean, 1151
Lortet, Gilles, 1040
Losi, M. E., 3079
Lottspeich, F., 3902
Lou, J., 1483, 4355
Lou, Yuqian, 1252
Loubens, Isabelle, 4578
Loubiere, P., 2665
Loureiro-Dias, Maria C., 4005
Lovley, Derek R., 3589
Lowe, Christopher R., 2062
Lucchini, Sacha, 3144
Lucero, Pilar, 3831
Luchansky, John B., 3480
Ludescher, Richard D., 4770
Ludwig, Wolfgang, 115, 2884
Lugtenberg, Ben J. J., 4543
Luo, Ke, 1024
Luque, Antonio, 1449
Luttik, Marijke A. H., 3345
Lynch, Nancy, 1557
Lynch, William H., 3770
Lyra, Christina, 2206

MacGregor, Barbara J., 1178
Mackie, Roderick, 2306
Madden, Laurence V., 162
Madden, Mark, 3151
Madeira, F. J. B., 3323
Madeira, H. M. F., 670
Madeira, Vítor M. C., 4948
Madigan, Michael T., 3003, 3010
Madsen, E. L., 2330
Maeda, Michihisa, 3282
Magariños, Beatriz, 1449
Maglione, Giuseppe, 665
Mahaffee, W. F., 1617
Mahapatra, N. R., 4523
Mahillon, Jacques, 806
Maida, Braulia, 3304
Maki, Yoshiyuki, 1214
Malamy, Michael H., 33
Malburg, Laercio M., Jr., 2449
Malburg, Sonia R. C., 2449
Malek, Lawrence T., 310
Malik, Naeem, 4558
Mallavarapu, Megharaj, 427
Mallonee, Darrell H., 1185
Maltseva, Olga, 4145
Manasherob, Robert, 4883
Manceau, Charles, 498
Mandelbaum, Raphi T., 916
Mann, Nicholas H., 2411
Manova, Katka, 3707
Mansfield, Shawn D., 3804
Mansur, Mariana, 2637
Mäntylä, Arja, 4938
Manz, Werner, 4164
Marconi, Andrea M., 2232
Marco-Noales, Ester, 537
Margalith, Yoel, 4883
Margesin, R., 2660
Margolis, Harold S., 2460
Mariam, Tadesse W., 3134
Marie, Dominique, 186
Marin, Roman, III, 4859
Marino, L., 4135
Marquina, D., 1165
Marre, Reinhard, 1396
Marron, Lynda, 4945
Marschner, Petra, 277
Marsh, Terence L., 4516
Marshall, Kevin C., 3698
Marshall, William A., 2240
Marteinsson, Viggó Thór, 1230
Martens, Rainer, 3919
Martikainen, Pertti J., 3242
Martín, Alvaro, 1602
Martin, Francis, 840
Martin, Juan F., 2977
Martin, Scott A., 4853
Martínez, A. T., 2166
Martínez, M. J., 2166
Martínez-Murcia, Antonio J., 1261
Martinez-Romero, Esperanza, 3676
Martín-González, Ana, 1602
Martín-Hernández, M. C., 314
Martins, Lígia O., 896
Maruta, Koji, 2489
Masaki, Shigehiko, 1847
Mascariña, G., 233
Mascarua-Esparza, Miguel A., 3676
Massana, Ramon, 50
Massol-Deyá, A., 270
Mateo, R., 364
Mateos, P. F., 3189
Matheson, Leah J., 2952
Matheson, V. Grace, 2863
Mathieu, L., 1564
Matsuda, Izumi, 282
Matsumura, F., 2741
Matsuo, N., 4986
Mattes, Ralf, 3684
Matthias, C., 4107
Matthijs, S., 4340
Mazzotta, Alejandro S., 2654
McArthur, J Vaun, 1505
McCammon, Sharee A., 3068
McCann, Mark T., 33
McCarthy, Darla L., 1883
McCartney, Anne L., 3394
McCarty, Greg W., 2832
McCarty, Perry L., 687, 1515, 2863, 4139
McClay, Kevin, 4216
McConnell, Michelle A., 3394
McCormick, Susan P., 1685
McCrae, Sheila I., 3752
McCullar, Michael V., 2054
McCullough, Amanda K., 1551
McCutchen, Carol M., 169
McDermott, Timothy R., 4978
McDonald, Ian R., 3218
McDonald, I. R., 1898
McDougald, Diane, 2754
McGrath, Jason E., 3333
McGrath, Steve P., 39
McIntyre, Mhairi, 4171
McKay, Larry L., 3757
McKenzie, J. D., 1721
McLeroy, Stacey, 2464
McManus, George, 2464
McMeekin, Tom A., 3068
McNab, W. B., 757
McNeil, Brian, 4171
Medina, Karina, 2821
Meens, Jochen, 2814
Mehta, Bina J., 3657
Meile, Leo, 1268
Meinander, Nina Q., 1959
Meinhardt, Friedhelm, 4292
Meiron, T., 990
Menasherov, M., 990
Menzler, Dominic A., 1318
Merino, María T., 3385
Merry, Julia, 3539
Mesquita, Carla, 851

Mester, Tünde, 1987
Methé, Barbara A., 2957
Mett, A., 990
Michel, Rolf, 115
Michel-Briand, Yvon, 862
Michels, Jochen, 2560
Michels, Peter C., 3985, 4075
Michelsen, B., 4638
Michiels, Chris W., 945
Michotey, Valerie D., 636
Middelburg, Jack J., 4734
Middeldorp, Peter J. M., 1225
Miettinen, Ilkka T., 3242
Mikkelsen, Jørn Dalgaard, 2366
Mikkonen, Anita, 4929
Millard, Paul J., 2421, 2897
Miller, Laurence G., 4346
Miller, Raina M., 1866, 3622
Milton, Donald, 2554
Mincer, Tracy J., 888
Miner, Norman, 3304
Mirzabekov, Andrei D., 2397
Mishra, S. K., 4090
Miwa, Takehiro, 2155
Miyamoto, Hiroshi, 2489
Miyamoto, Katsushiro, 661
Miyauchi, Keisuke, 3707
Mizuguchi, Naoyuki, 3783
Mobarry, Bruce K., 2397
Moczydlowski, E., 3104
Moënne-Loccoz, Y., 4261
Moënne-Loccoz, Yvan, 1357, 3776
Moermans, Renaat J. B., 3139
Mogen, B., 2625
Mohn, William W., 3014, 3378
Moineau, Sylvain, 1274, 3246
Moisander, Pia, 1647
Moletta, René, 2802
Molin, Søren, 2432
Molin, Søren, 3698, 4196
Molina, J. A. E., 679
Molkenboer, M., 1102
Møller, Søren, 2432
Molouba, Flore, 1151
Mondello, Frank J., 3096
Mondorf, Kristine, 3151
Monette, R., 440
Monier, Jean-Michel, 1570
Moniruzzaman, Mohammed, 4633
Monnet, Christophe, 793, 2293
Monsan, Pierre F., 2159
Monserrate, Esteban, 3911
Monte, E., 3189
Montville, Thomas J., 524, 2654, 4770
Moore, Jessica A., 408
Moore, Larry W., 201
Morais, Paula V., 851
Moran, B. N., 3866
Moran, Mary Ann, 4237, 4907
Moreira, M. Teresa, 1749
Morel, François M. M., 2022
Morel-Deville, Françoise, 2111, 2117
Moreno, Eulalia, 3831
Moriau, L., 4585
Morihama, Ritsuko, 3783
Moriishi, Kohji, 1214
Morita, Chiharu, 2142
Morris, Cindy E., 1570
Morris, Robert, 2925
Morrison, M., 670
Morrison, Mark, 3314
Mörschel, Erhard, 1382
Moser, Duane P., 1178
Moulin, Guy, 2779
Moulin, Pascale, 1230
Moussaïf, Mustapha, 1739
Moyer, Craig, 4784
Mtambo, M. M. A., 1631
Mühldorfer, Inge, 703
Mukherjee, M., 4120
Mukund, Swarnalatha, 289
Mulders, Mick N., 519
Mulę, Giuseppina, 1843
Müller, Karl-Dieter, 115
Müller, Rudolf, 790
Müller, Y., 57
Mullins, Martha A., 532
Munakata-Marr, Junko, 2863
Munderloh, Ulrike G., 3926
Muñoz, C., 2166
Muñoz, Delia, 3025
Munson, Mark A., 4729
Murai, Toshiyuki, 1362
Murakawa, Shawn K. K., 2925
Muramatsu, Yasukazu, 2142
Murdanoto, Agung Primanto, 1715
Muroga, K., 1633
Murphree, Rendi L., 2607
Murray, Alison E., 50
Murrell, J. C., 1898
Murrell, J. Colin, 3218
Musters, Wouter, 2507
Muyzer, Gerard, 3327, 3789, 4360
Myers, D. K., 145

Naaktgeboren-Stoffels, Geesje, 3628
Nadakavukaren, Mathew J., 1889
Nagai, T., 1633
Nagai, Toshirou, 4087
Nagalla, Srinivasa R., 796
Nagaraja, T. G., 4671
Nagata, Yuji, 3707
Nagy, István, 1911
Nainan, Omana V., 2460
Nakai, T., 1633
Nakajima, Hajime, 2213
Nakajima, Harushi, 1428
Nakamura, Kanji, 1777
Nakanishi, Hisao, 775, 4127
Nakashimada, Yutaka, 4471
Nakayama, Akihiko, 2572
Nalin, Renaud, 1610
Nance, Ursula M., 3878
Nanda, Geeta, 817
Narayanan, Sanjeevkumar, 4671
Narendranath, N. V., 4158
Nauta, Arjen, 2722
Navarro, Elisabeth, 1610
Nava Saucedo, José Edmundo, 21
Naveau, Henry, 806
Ndiaye, Amadou, 1040
Ndoye, Ibrahim, 1040
Nealson, Kenneth H., 1178, 2613
Nedoma, Jiří, 587
Nedwell, David B., 4729
Neeser, Jean-Richard, 2747, 3512
Nelis, H. J., 771, 4116
Nelson, Douglas C., 3957
Nelson, D. R., 1034
Nelson, Paul E., 1838
Neri, Angela, 2934
Nes, Ingolf F., 4321
Nesme, Xavier, 4965
Ness, L. S., 4083
Neumann, Mark, 547
Neumeister, B., 1219
Nevalainen, Helena, 4929, 4938
Neves, M. Cristina P., 1288
Newman, Dianne K., 2022
Newman, Lisa M., 1606
Ng, Lai-King, 4558
Ng, Tien Meng, 1237
Nguyen, Thien Ngoc, 2481
Ní Chadhain, Sinéad M., 408
Nichols, David S., 3068
Nicolet, Jacques, 703, 2258
Niebylski, Mark L., 3933
Nielsen, Jens, 2366
Nielsen, Kaare M., 1945, 3972
Nielsen, Per Halkjaer, 3837, 3662
Nielsen, Tommy H., 2224
Niemelä, Seppo I., 2206
Nierzwicki-Bauer, Sandra A., 2957
Nijburg, Johanna W., 931
Nikolaev, Y., 4083
Nikulin, M., 387
Nilsson, Mats, 1476
Nishida, Tomoaki, 329
Nishihara, Hirofumi, 553
Nishihara, Mitsuhiro, 1820
Nishio, Naomichi, 4471
Nishio, Takayuki, 1594
Nishioka, Motomu, 4504
Nishizawa, T., 1633
Nissen, Steven L., 4191
Nittayajarn, Aphakorn, 3539
Niwa, Mineo, 454
Noble, Peter A., 1762
Noble, R. T., 77
Noda, Hiroaki, 3926
Noguchi, Yuji, 454
Nold, S. C., 1367
Noll, Kenneth M., 969
Nollet, L., 194
Normand, Philippe, 1610
Novak, L., 2665
Novak, R. J., 1006
Nübel, Ulrich, 3327
Nukumizu, Yuki, 1054
Nurk, A., 4899
Nyaga, Simon, 1551
Nybroe, Ole, 4920
Nykänen, Marko, 4929

Obernosterer, Ingrid, 4178
Oberst, R. D., 4671
Ochi, Kozo, 3825
O'Connell-Motherway, Mary, 2454
O'Connor, C. David, 938
O'Connor, Kevin E., 4287
O'Connor, Kristina, 1531
O'Driscoll, Brid, 2679
Odt, Christine L., 734
Odumeru, J. A., 757
O'Gara, F., 4261
O'Gara, Fergal, 1357
O'Gara, James P., 4713
Ogawa, Jun, 4282
Ogram, Andrew, 1332
Oh, Ill-Kyoon, 1744
Ohashi, Eiji, 4127
Ohgaki, Shinichiro, 2932
Ohmiya, Kunio, 2089
Ohode, Y., 4793
Ohtsuki, Takahito, 661
Oka, Masanori, 4504
Okabayashi, Tamaki, 2142
Okada, Keisaku, 3783
Okazaki, M., 4793
Okumura, Koichi, 3164
Okwumabua, Ogi, 4671
Oldenhuis, Roelof, 474
Olesen, Bo, 2502
Oliva, José-Miguel, 2071
Oliver, James D., 1002
Oliver, J. D., 1674
Olmo, Asunción, 1602
Olsen, John Elmerdahl, 2189
Olsen, Ronald H., 3736, 4047
Olsson, Lisbeth, 2366
Olsson, Pål Axel, 3531
Onaka, Toshimitu, 3164
Onnela, Maija-Leena, 1298
Oomes, Suus, 3764
Op den Camp, Huub J. M., 4741
Ophel-Keller, Kathy, 676
Oppedisano, F., 4135
Oppenheim, Amos B., 834
Orduz, S., 468
Oremland, Ronald S., 2952, 4346
Oriel, Patrick, 4145
Ostertag, Eric M., 4304
O'Sullivan, Eilís, 4210
Osumi, Masako, 1362
O'Toole, George A., 4543
Otto, K., 1034
Otto, Karen, 749
Ou, Li-Tse, 1332
Ouazzani, Jamal, 862
Ouverney, Cleber C., 2735
Overmann, Jörg, 3176
Oxelfelt, Fredrik, 1801
Özel, Muhsin, 44

Pace, John L., 2372
Padilla, Leandro, 227
Padre, B., 233
Paerl, Hans W., 420
Paffetti, D., 4485
Pagán, R., 3225
Page, Cynthia, 3607
Pages, Sandrine, 903
Pagratis, Maria, 4313
Paice, M. G., 4627
Palacios, Gemma, 1602
Palas, Jeff S., 3488
Palenik, Brian, 4298
Palmer, E. L., 4604
Palmer, R. J., Jr., 4600
Palojärvi, Ansa, 1011
Palop, Alfredo, 2246
Palumbo, Anthony V., 2384
Palva, Airi, 2850

Panaccio, M., 1874
Paquin, J. L., 1564
Park, Jong-In, 3818
Park, Sea H., 2391
Park, Yong-Ha, 2578
Parker, Corrine, 543, 3519
Parker, Dave, 4243
Parker, D. L., 2324
Parker, Kimberley N., 169
Parkin, Kirk L., 3438
Partensky, Frederic, 186
Parveen, Salina, 2607
Pasamontes, Luis, 1696
Paster, N., 990
Paton, C. A., 1631
Paul, J. H., 3600
Paul, John H., 133, 4564
Pauli, Georg, 44
Payne, G. A., 3995
Peacock, Mort G., 3933
Pecota, Doug C., 1917
Pedersen, Karl, 1460, 3711
Peekhaus, Norbert, 3519
Peigue-Lafeuille, Hélène, 3199
Peinado, J. M., 1165
Pel, Roel, 474
Pell, Alice N., 1143
Pelletier, Christophe, 1725
Peñalver, Élida, 3831
Peng, L., 670
Penninckx, Michel J., 2857
Penttilä, Merja E., 1298
Pepper, Ian L., 324, 1019
Pereira, Maria Das Graças C., 3946
Perestelo, F., 3716
Pérez de Egea, Encarnación, 3499
Pernthaler, Jakob, 587, 596, 867, 4778
Pestka, James J., 263
Peters, M., 4899
Petersen, Søren O., 2224
Peyronnet, Olivier, 1679
Pfefferkorn, Anita, 1268
Phillips, Donald A., 4573
Philp, Paul, 3589
Piatti, Gabriella, 122
Pichard, S. L., 3600
Pichereau, Vianney, 4657
Pickard, Allan R., 1657
Pickup, R. W., 1905
Pieper, Dietmar H., 427
Pieper, Dietmar Helmut, 1974
Piérard, D., 4585
Pierrat, Jean Claude, 139
Pierson, D. L., 4090
Pikkemaat, Mariël, 435
Pillidge, Christopher J., 3757
Piñar, Güadalupe, 2071
Pinckney, James L., 420
Pinhassi, Jarone, 3359
Pintó, R. M., 3119
Plattner, Ronald D., 1838
Plésiat, Patrick, 862
Pocard, Jean-Alain, 4657
Poetsch, Micaela, 335
Pol, Arjan, 4741
Politino, Michael, 4807
Polz, Martin F., 1028
Pometto, Anthony L., III, 2516, 2524, 2533
Pommepuy, M., 1794
Poncet, Sandrine, 4413
Pongpattanakitshote, S., 2989
Poolman, Bert, 2213
Poot, Martin, 2421
Popa, Radu, 3123
Popoff, Michel R., 4232
Poppe, C., 757
Poppitz, Wolfgang, 2560
Porcella, Stephen F., 3933
Porstendörfer, Dirk, 4150
Portais, Jean-Charles, 21
Portal, Jean-Marie, 2729
Portier, Kenneth M., 2607
Posch, Thomas, 587, 596, 867, 4778
Post, Anton F., 3507
Potvin, L., 440, 3978
Poulsen, C. H., 4638
Poulsen, Lars K., 3698
Poulsen, Lars Kongsbak, 3043
Pourshaban, Manouchehr, 1148
Powell, Simon I., 1312
Powell, William A., 3311
Pranamuda, Hardaning, 1637
Presser, K. A., 2355
Preston, Christina M., 50
Prévost, Danielle, 4748
Priest, Fergus G., 1195
Prieto, R., 1661
Prieur, Daniel, 1230, 2876, 4061
Prista, Catarina, 4005
Proctor, Lita M., 2252
Promadej, N., 1077
Promé, Jean-Claude, 862
Pronk, Jack T., 3345, 3399
Proost, Paul, 1911
Prosser, J. I., 2281
Prosser, Jim I., 1489
Proudnikov, Dmitrii, 2397
Pruvost, Olivier, 246
Psenner, Roland, 587, 596, 867, 4178, 4778
Ptitsyn, L. R., 4377
Pujol, Catherine, 71
Punt, Peter J., 488

Quax, Wim J., 3412
Quigley, Neil B., 2771
Quignon, F., 978
Quinlan, J. J., 482

Raaijmakers, Jos M., 881
Rabinowitz, Kristina S., 3182
Racke, Kenneth D., 4096
Rahman, I., 3585
Rahman, M. Mahbubur, 1588
Rahman, Raja Noor Zaliha Abdul, 2472
Rai, L. C., 2324
Raida, Manfred, 2983
Rainey, F., 387
Rainey, Frederick A., 1382
Rajagopal, B. S., 33
Ramakrishnan, Vijai, 347
Ramanand, K., 2785
Ramos, Ana, 4020
Ramos, José, 4005
Ramos, Juan L., 2071
Ramsing, Niels B., 2347
Randhir, Reena Jayanthi, 4001
Rapala, Jarkko, 2206
Rapoport, Georges, 4413
Rappé, M., 63
Rappé, Michael S., 983
Raskin, Lutgarde, 1107
Rasmussen, Lasse D., 3291
Rasmussen-Wilson, Shelly J., 3488
Rasooly, Avraham, 2361
Rasooly, Linda, 2361
Rathbone, Deborah A., 2062
Ratkowsky, D. A., 2355
Rattray, Fergal P., 2468
Raudaskoski, Marjatta, 4929
Raven, Neil D. H., 4020
Raymaeckers, J., 13
Read, S., 757
Reasoner, D. J., 4969
Redecker, Dirk, 1756
Redl, Bernhard, 753
Reed, Gregory D., 4385
Rees, Effi, 800
Regalado, V., 3716
Reichardt, W., 233
Reichenbach, Hans, 719
Reid, Karen A., 151
Reijula, K., 387
Reimer, Kenneth J., 3378
Reinhold-Hurek, Barbara, 4331
Remaud-Simeon, Magali, 2159
Renganathan, V., 796
Resnick, Sol M., 2067
Restrepo, Silvia, 4427
Rettberg, P., 4377
Reuss, Jörg, 4243
Reverbel-Leroy, Corinne, 903
Revsbech, N. P., 1367
Reybroeck, W., 4116
Rhee, G-Yull, 1771
Rhee, Joon Haeng, 3308
Rhee, Kwang-Ho, 4866
Rhee, Sung-Keun, 2578
Rice, E. W., 4969
Rice, Jason, 938
Richard, Jean, 301, 2124, 2131
Richmond, Kara L., 1400
Riemens, Anja M., 3412
Riepe, Heidi R., 3757
Rigsby, Luanne L., 3950
Rijnen, Liesbeth, 414
Rijpkema, S., 1102
Rince, Alain, 1244, 4252
Ringelberg, David B., 1531, 3128
Ríos-Hernández, L., 270
Ritalahti, Kirsti M., 2870, 4982
Ritchie, Karl, 4621
Ritter, Wolfgang, 1107
Rittmann, Bruce E., 2397
Robeff, Pamela, 2798
Roberts, Mary F., 220, 4032
Robertson, Lesley A., 2300
Robins-Browne, R. M., 4135
Robinson, Joseph A., 3797
Robinson, Kevin G., 4385
Robinson, Patrice M., 4032
Rochelle, Paul A., 106, 2029
Rocher, Magali, 827
Roden, Eric E., 4993
Rodríguez, A., 3716
Rodriguez, Carmen, 3950
Rodríguez, Juan M., 4990
Rodríguez-Valera, Francisco, 1261
Rohde, Manfred, 122
Roldán, José Manuel, 3385
Romalde, Jesus L., 1449
Romancik, Guna, 4807
Romano, Antonio H., 969
Rombouts, F. M., 4079
Rombouts, Frank M., 178
Rombouts, Frans M., 3451
Romero, Jaime, 1344
Romero i Solé, Sílvia, 1987
Rønnow, Birgitte, 2366
Rontani, Jean-Francois, 636
Rooney-Varga, Juliette N., 3895
Rosas, Irma, 4093
Rosazza, John P. N., 4191
Rose, Joan B., 133, 3669, 4564
Rose, Noel R., 2361
Roslev, Peter, 874
Rosner, Bettina M., 4139
Ross, B. C., 4135
Ross, R. Paul, 1434
Ross, T., 2355
Rossi, Humberto A., 2372
Rossi, Mosé, 4020
Rosso, Marie-Laure, 4449
Rossolini, Gian Maria, 2934
Roth, Bruce L., 2421, 2897
Rothschild, Nathan, 857
Rotthauwe, Jan-Henrich, 4704
Rowan, N. J., 1182
Rubens, Craig E., 3539
Rubino, Salvatore, 2082
Rubinstein, Clara P., 2716
Rudi, Knut, 2593
Rudolf, Melanie, 2961
Ruiz-Arribas, Alberto, 2983
Ruiz-Perez, Luis Miguel, 1602
Russell, James B., 665
Russell, Nicholas J., 3451
Ruzzi, Maurizio, 2232
Ryser, Elliot T., 3695
Ryu, Bok-Deo, 4866

Sa, Ping, 3797
Saano, A., 803
Saarelainen, Ritva, 4929, 4938
Sablon, E., 13, 1808
Saby, S., 1564
Sack, Ute, 2906, 3919
Saddler, John N., 3804
Sadowsky, Michael J., 916, 1606
Sadowsky, M. J., 679
Saito, Yoshimasa, 454
Sakai, Yasuyoshi, 1715
Sakanyan, Vehary, 763
Sakka, Kazuo, 2089
Sakurai, Yonekichi, 2089
Sala, F. J., 3225
Sala, Francisco J., 2246
Salama, Maysoon S., 694
Salema, Roberto, 1801
Salgado, Luis M., 3657
Salim, K., 4392
Salinas, Eva, 4093
Salkinoja-Salonen, M., 387
Saloheimo, Anu, 1298
Salomon, R., 990
Samuelson, Patrik, 2481
Sánchez, Pilar, 2983
Sanchez-Amat, Antonio, 3499
Sánchez-Barbero, Luis, 2071
Sanchis, Vincent, 779
Sanda, Kenji, 1214

Sanders, Jan Willem, 4877
Sandine, William E., 694
Sankey, Bruce M., 2915
Santamaría, Ramón I., 2983
Santegoeds, Cecilia M., 973
Santos, A., 1165
Santos, Helena, 896, 4020
Sanz, Bernabé, 4990
Saraf, Anita, 2554
Sardin, M., 978
Sasaki, Takashi, 4593
Sasaki, Yasuko, 4593
Sassanella, Timothy M., 1189
Satake, Mikio, 775
Satoh, Eiichi, 4593, 4941
Savage, Stephanie A., 4304
Savchenko, Alexei, 3569
Savijoki, Kirsi, 2850
Sawada, Hiroyuki, 282
Sayler, Gary S., 4385
Scanlan, David J., 2411
Schaap, Peter J., 2507
Schaap, P. J., 57
Schaarwächter, Peter, 1739
Schacht, S., 1808
Schaffner, Donald W., 1237
Schalch, B., 3992
Schamberger, Patrick C., 3837
Schell, Mark A., 844
Schenzle, Andreas, 1421
Scherer, Siegfried, 2961, 4812
Schiaffino, Angela, 2082
Schimmel, Timothy G., 1307
Schinner, F., 2660
Schipper, Dick, 3345
Schleifer, Karl-Heinz, 2884
Schleper, Christa, 321
Schloter, M., 2038
Schlotfeld, Lindy, 3304
Schmeer, Norbert, 4272
Schmid, Ernst N., 115
Schmitt, Philippe, 793
Schmitt, Thomas C., 4099
Schneider, Beate, 800
Schneider, Palle, 3151
Schofield, Peter, 1143
Scholin, Christopher A., 4859
Schönhuber, Wilhelm, 115, 3268
Schöniger, S., 1219
Schoofs, Geert, 1911
Schotzko, D. J., 3211
Schouten, Stefan, 3090
Schraa, Gosse, 1225
Schrader, Holly S., 1551
Schrader, John O., 1551
Schräder, Thomas, 4891
Schramm, Andreas, 973
Schuhmann, Alexandra, 1382
Schulze-Röbbecke, Roland, 547
Schwan, Tom G., 3933
Schwartz, Jean-Louis, 1679
Schwartz, J. L., 440, 3978
Schwartzbrod, L., 978
Scott, Karen P., 3405
Scow, Kate M., 4015
Seegers, Jos F. M. L., 305
Sekar, Vaithilingam, 2792, 2798
Selitrennikoff, Claude P., 3488
Sellstedt, Anita, 4597
Sembries, Sabine, 2100
Semprini, Lewis, 3607
Sengupta, S., 4120
Servin, Alain L., 513, 2747
Shah, Dhiren B., 2361
Shahamat, M., 3585
Shao, Weilan, 3438
Shapira, R., 990
Shapira, Roni, 524
Sharak Genthner, Barbara R., 4698
Sharma, A., 1712
Sharma, N. D., 151
Sharp, Richard J., 4020
Shelton, Daniel R., 2832
Shetty, Kalidas, 767
Shi, Yan, 734, 743
Shibasaki, Yumi, 1362
Shieh, Mei-Tsu, 3548
Shieh, Y.-S. Carol, 4401
Shima, Jun, 3825
Shimada, Toshio, 4102
Shimizu, M., 4793
Shimizu, Sakayu, 1820, 4282
Shimkets, Lawrence J., 1505
Shimomura, Kyoichi, 454
Shin, Kwang-Soo, 1744
Shin, Pyong Kyun, 1
Shiomori, Teruo, 2489
Sibille, I., 1564
Siddiqui, Roman A., 800
Siddons, C. A., 2549
Sidoti, Josette, 3144
Siedlecki, K. J., 4600
Siegel, J. P., 1006
Siering, P. L., 644
Sierra-Alvarez, Reyes, 1749
Sievers, A., 4135
Silman, Nigel J., 2411
Šimek, Karel, 587, 596
Simitsopoulou, M., 4872
Simnacher, Ulrike, 1396
Simonet, Pascal, 4965
Sinai, Rosa, 4883
Singh, J. B., 2324
Sinninghe Damsté, Jaap S., 3090
Siragusa, Gregory R., 4069
Sivonen, Kaarina, 1647, 2206
Skulberg, Olav M., 2593
Slaney, Annette C., 2311
Sleigh, Michael A., 938
Slifko, Theresa R., 3669
Sluis, Johanna M. R., 3318
Sly, Lindsay I., 2944
Smalla, K., 1980
Smalla, Kornelia, 3233
Smart, David R., 4621
Smid, Eddy J., 2074, 3628
Smith, A. R., 1006
Smith, H. V., 1631
Smith, John E., 1048
Smith, Kelly S., 4617
Smith, L. M., 4261
Smith, Lorna M., 924
Smith, Michael R., 581
Smith, Roger V., 4679
Smith, Sally, 676
Smith, Tracy, 1066, 4494
Smolders, Alfons J. P., 4741
Smulski, Dana R., 2566
Snaidr, Jiri, 2884
Sobecky, Patricia A., 888
Sobolev, Vladimir, 834
Sobsey, Mark D., 1598, 4401
Soda, Kenji, 4651
Soeda, Shinsuke, 454
Sojar, Hakimuddin T., 2318
Solanas, Anna Maria, 819
Solano, Francisco, 3499
Sommaruga, Ruben, 4178
Sommer, Patricia, 3553
Song, Jae-Young, 4866
Song, Jian, 567
Sonnenberg, Anton S. M., 3426
Sonnenberg, A. S. M., 57
Sooknanan, Roy, 310
Soontjens, Carine C. F., 945
Sørensen, Anders Hay, 2001, 3043
Sørensen, Jan, 2920
Sørhaug, T., 1284
Spain, Jim C., 2007, 4839
Spear, Russell N., 3261
Spencer-Martins, I., 1165
Spormann, Alfred M., 3729, 4139
Sprague, Stephanie J., 2870
Spring, Stefan, 4223
Springer, Nina, 115
Srebotnik, Ewald, 4435
Srinivas, G., 2792
Staal, Marc, 4243
Staats, Jacque, 4671
Stabel, J. R., 4975
Stackebrandt, Erko, 719
Staendner, Lothar H., 122
Stahl, David A., 1178, 1498, 2397
Ståhl, Stefan, 2481
Stal, Lucas J., 4243
Stam, Hein, 2507
Stanley, Elizabeth, 3246
Stark, John M., 4621
Staudenbauer, Walter L., 3902
Stax, Dietmar, 2136
Stea, Gaetano, 1843
Steadham, E. M., 4975
Steele, James L., 3438
Steele, M., 757
Steffan, Robert J., 4216
Stein, Jeffrey L., 1124, 3494
Stein, Lisa Y., 4588
Steindl, H., 2038
Steinert, Michael, 2047
Stelma, G., 3585
Stemmler, Konrad, 4053
Stenström, Thor-Axel, 2708
Stentz, Régis, 2111
Stepanauskas, Ramūnas, 3648
Stepaniak, L., 1284
Stephen, John R., 1489
Sterritt, W. G., 3916
Stetter, Karl O., 896
Stevens, D., 4585
Stewart, Gordon R., 3014
Stewart, G. S. A. B., 2281
Stewart, Mic H., 106, 2029
Sticher, Patrick, 4053
Stinear, T., 4135
Stöffler, Georg, 753
Stolle, A., 3992
Stols, Lucy, 2695
Stolz, Andreas, 3390, 3684, 3691
Stone, Alex G., 162
Stottmeister, U., 4899
Stotzky, G., 3561
Strecker, Gérard, 3512
Strobel, H. J., 1483, 2949, 4355
Ströbel, Jürgen, 983
Strong, David, 519
Strous, Marc, 2446
Stuart-Keil, K. G., 2330
Su, Jer Horng, 3851
Suárez, Ana M., 4990
Suarez, Antonio, 122
Suárez, Teresa, 2637
Suci, P. A., 4600
Sudha, S. N., 2792
Suflita, Joseph M., 1627, 2785, 3170, 3594
Sugita, H., 4986
Sugita, T., 4793
Sugiyama, Masanori, 661
Sulistyowati, Emy, 676
Summers, Anne O., 1066, 4494
Summers, Michael L., 4978
Sundaram, S. T., 1712
Sundh, Ingvar, 1476
Suominen, Pirkko, 4938
Suttle, Curtis A., 2200
Suykerbuyk, Marjon E. G., 2507
Suzuki, Isamu, 2058
Suzuki, Katsuhisa, 2089
Suzuki, Marcelino T., 983
Suzuki, Masanori, 3164
Svitil, Amy L., 408
Swarts, Henk J., 1987
Sweitzer, Richard A., 3946
Swings, Jean, 2600
Szállás, Emilia, 2826
Szewzyk, Ulrich, 4164

Tabacchioni, S., 4485
Tabashnik, Bruce E., 1024, 2218
Tabatabai, Niloofar, 962
Taft, Cathy S., 3488
Tagu, Denis, 840
Takagi, Masahiro, 785, 4504
Takagi, Masamichi, 3707
Takahashi, Yoko, 3825
Takami, Hideto, 2266
Takamine, Fusae, 1185
Takamura, Yoshichika, 553
Takano, Yoshitaka, 351
Takase, Shigehiro, 3825
Takeuchi, Toru, 282
Takeuchi, Travis L., 2058
Talibart, Roland, 4657
Talpsep, E., 4899
Tamagnini, Paula, 1801
Tamai, Yukio, 910
Tamayo, M. C., 468
Tamplin, Mark L., 2607
Tamura, Katsunori, 2266
Tan, Yuping, 2311
Tanaka, Atsuo, 1362, 4956
Tanaka, Hideo, 1637
Tanaka, Takao, 4844
Tani, Yoshiki, 1715
Tannock, Gerald W., 3336, 3394
Tapia-Hernandez, Armando, 3676
Tardif, Chantal, 903
Tarran, Glen A., 938
Tauriainen, Sisko, 4456
Tavares, Fernando, 4597
Tavernier, Patricia, 21
Taylor, Barrie F., 220
Taylor, Diane E., 4558

Teather, R. M., 394
Teather, Ronald M., 1256, 1701
te Biesebeke, Rob, 615
Techkarnjanaruk, S., 2989
Tejada, M., 3189
Telang, Anita J., 1785
te Lintel Hekkert, Sacco, 4243
ten Have, Rimko, 3301
Teranishi, Yutaka, 4956
Tessier, Michel, 1696
Teuber, Michael, 1268
Teunissen, Pauline, 2543
Teviotdale, B. L., 4604
Thi, Hong-Phuc Truong, 2897
Thierfelder, Heidemarie, 1756
Thiery, I., 468
Thirouin, Sylvie, 414
Thomas, D. Ian, 1288
Thomas, K. C., 4158
Thomas, L. M., 1874
Thomashow, Linda S., 881, 951
Thonart, Philippe, 1739
Thorne, Peter S., 1557
Tiedje, James M., 1515, 1523, 2266, 2384, 2863, 2870, 4982
Tiedje, J. M., 270
Tien, M., 2913
Timmis, Kenneth N., 122, 427, 3458
Timmis, Kenneth Nigel, 1974
Tippett, Jan, 2798
Tobiassen, R. O., 1284
Tokiwa, Yutaka, 1637
Tola, E., 4261
Toledo, Gerardo, 4298
Tolker-Nielsen, Tim, 4196
Tomorbaatar, Chishignjamchuugjin, 4956
Tonzi, Sean M., 4807
Tooley, P. W., 1467
Toro, Marcia, 4408
Torsvik, T., 2181
Torsvik, Terje, 3043
Torsvik, Vigdis, 3367
Torsvik, Vigdis Lid, 3043, 4692
Toschka, Holger Y., 615
Touati, Danièle, 4204
Townend, John, 924
Townsend, G. Todd, 2785, 3594, 4698
Triplett, Eric W., 2647
Troitskaya, Eugenia, 4883
Troshina, Olga, 1801
Troussellier, Marc, 2686
Trout, James M., 2086
Troxler, Joseph, 213, 3776
Tsujibo, Hiroshi, 661
Tsujimoto, Kumiko, 761
Tsuzuki, Kayo, 1214
Tuchman, Mendel, 33
Tuomi, P., 2181
Turcich, Michael P., 3096
Turner, Geoff, 310
Turner, Ralph R., 3291, 4267
Turng, Been-Foo, 84
Tzédakis, Théo, 2671

Uchimura, Tai, 4941
Uchiyama, H., 1898
Ueda, Mitsuyoshi, 1362, 4956
Ueki, Nobuhide, 4956
Ueno, Hiroshi, 2142
Ueno, Kei-Ichiro, 767
Ugalde, Rodolfo A., 2716
Uguen, Patricia, 4252
Ulrich, Glenn A., 1627
Umemori, Juzoh, 2155
Upper, Christen D., 4304
Urbach, E., 63
Urbach, Ena, 694
Uribelarrea, Jean-Louis, 2765
Urich, G., 4340
Usher, John J., 4807
Utley, Maryjane, 1389

Vachon, Vincent, 1679
Vaerewijck, Mario J. M., 3139
Vafopoulou, A., 4872
Vainberg, Simon, 4216
Valdés-Stauber, Natalia, 4812
Valenzuela, Javier, 227
Valla, Svein, 370
van Berkel, Willem J. H., 435
van Berkel, W. J. H., 4079
van Berkum, Peter, 4748
Van Broekhoven, A., 1808
Vandamme, E. J., 13
Van Damme, L., 4585
Vandenbergh, Peter A., 1274
van den Brink, M., 1617
van den Heuvel, R. H. H., 4638
van den Hombergh, J. P. T. W., 4638
Van Den Hondel, Cees A. M. J. J., 488
van der Drift, Chris, 4741
van der Kuijl-Booij, Marianne, 3810
van der Laan, Jan-Metske, 3412
Vanderleyden, Jos, 1911
van der Mee-Marquet, Nathalie, 3374
van der Meer, Jan Roelof, 4053
van der Mei, Henny C., 3810
van der Nat, Frans-Jaco W. A., 4734
van der Oost, John, 4020
Van Der Vaart, J. Marcel, 615
van der Wolf, J. M., 1617
Van Dien, Stephen J., 1689
van Dijken, Johannes P., 3345, 3399
van Duin, Jan, 3412
Van Dyk, Tina K., 2566
van Elsas, Jan D., 1945, 1965, 3972
Van Etten, James L., 1551
van Frankenhuyzen, Kees, 4132
van Gerven, Eric, 2446
van Gijsegem, Frederique, 4965
van Griensven, L. J. L. D., 57, 3426
van Hoogmoed, Chris G., 3810
van Hylckama Vlieg, Johan E. T., 4961
van Iersel, M. F. M., 4079
van Loon, Adolphus P. G. M., 1696
Van Mellaert, L., 1808
van Overbeek, Leonard S., 1965
van Pée, Karl-Heinz, 1911, 2147
Van Poucke, S. O., 771
van Sinderen, Douwe, 2454, 2722, 3246
van Spanning, Rob, 3345
Van 'T Hof, Ron, 3451
van Veen, Johannes A., 1965
Van Verseveld, Henk W., 2300
Van Vuren, Dirk, 3946
van Vuurde, J. W. L., 1617
van Weerelt, Margareta D. M., 1945
Vartiainen, Terttu, 3242
Vásquez, Mónica, 332
Vater, Joachim, 44
Vaughan, Elaine E., 4581
Vaulot, Daniel, 186
Vedamuthu, Ebenezer R., 1274
Veiga, Maria C., 403
Veitch, M. G. K., 4135
Venczel, Linda V., 1598
Venema, Gerard, 305, 2722, 4877
Venema, Koen, 305
Venkateswaran, Kasthuri, 775, 4127
Vennison, S. John, 2792, 4971
Ventullo, Roy M., 3111
Vercellone-Smith, Pamela, 1925
Verdier, Valerie, 4427
Verdonck, Linda, 2600
Vergin, K., 63
Vergin, Kevin L., 1441
Verhaert, Raymond M. D., 3412
Verhagen, Marc F. J. M., 347
Verheul, Annette, 1155, 3451, 3628
Vernet, Marc, 1230
Verrips, C. Theo, 615
Verstraete, W., 194
Vickerman, M. M., 1667
Vickers, Joan E., 254
Vieille, Claire, 2273, 3569, 3577
Vigeant, Margot A. S., 3474
Vijaranakul, Uriwan, 1889
Vila, Jordi, 1449
Villena, C., 3119
Virta, Marko, 4456
Visser, J., 57, 4638
Visser, Jaap, 2507
Visser, Jan M., 2300
Vives-Rego, J., 4608
Vlak, Just M., 3025
Vlasceanu, Luminita, 3123
Vlegels, Ellie, 3246
Vogensen, Finn K., 2439
Vogensen, Finn Kvist, 1826
Völksch, Beate, 156
Vollenbroich, Dirk, 44
Vollmer, Amy C., 2566
Voordouw, Gerrit, 1785
Vorgias, Constantin E., 834
Vos, An, 474
Voskuilen, Gijs, 2092
Vrba, Jaroslav, 587, 596
Øvreås, Lise, 3367

Wackett, Lawrence P., 916, 1606
Waes, Guido M. A. V. J., 3139
Wagner, Bianca, 4331
Wagner, Michael, 1498
Wakao, Norio, 2089
Wakeham, Stuart G., 3090
Waldron, Keith, 208
Walker, Christopher, 1756
Walker, Mark J., 3844
Wallner, Günter, 4223
Walsh, David J., 3297
Walsh, Linda, 3246
Walthers, Eliza A., 1400
Wand, H., 4899
Wang, Clifford L., 4075
Wang, Fulai, 3703, 4765
Wang, Grace C.-Y., 4645
Wang, Jiucun, 3783
Wang, Kan, 2798
Wang, San-Lang, 380
Wang, Xiao-Zhuo, 1623
Wang, Yue, 4645
Ward, David M., 2347
Ward, D. M., 1367, 1375
Warner, J. M., 1674
Warren, Gregory W., 532
Watanabe, Toshihiro, 1214
Waterman, Michael S., 2338
Wawer, Cathrin, 4360
Weeks, Donald P., 1623
Weichart, Dieter, 749, 2754
Weickert, Michael J., 4313
Weigel, Pierre, 763
Weimer, Bart C., 1643
Weimer, Paul J., 734, 743
Weinbauer, Markus G., 2200
Weiner, R. M., 4107
Weingart, Helge, 156
Weller, David M., 881, 951
Weller, R., 270
Wellington, Elizabeth M. H., 1288, 3233
Wen, Zezhang, 3314
Werner, Dietrich, 1756
West, Nyree J., 4479
Westerberg, Karolina, 3378
Westlake, Donald W. S., 1785
Wetzstein, Heinz-Georg, 4272
White, David C., 1531, 3128
White, D. C., 4600
White, Scott, 1326
Whitehead, Michael P., 3548
Whitesides, Mark D., 1002
Whittam, Thomas S., 2175
Whyte, Lyle G., 3719
Widders, P. R., 1874
Wiegel, Juergen, 2836, 4818, 4826
Wiehe, W., 2038
Wieruszeski, Jean-Michel, 3512
Wilch, Ellen, 1531
Wild, Norbert, 3902
Wilhelm, Steven W., 2200
Wilkens, Richard T., 621
Wilkinson, Brian J., 1889, 3887
Williams, Christopher J., 3878
Williams, Henry N., 84
Williams, P., 2281
Williams, Peter A., 1421
Williamson, G., 4638
Williamson, Gary, 208
Willis, David K., 4304
Willoughby, Dache, 4993
Wilson, David B., 665, 2442
Wilson, G. Edwin, 162
Wilson, H. Martin, 2798
Wilson, Ian G., 3741
Wilson, K., 151

Wilson, Kenneth H., 1400
Wilson, William H., 2411
Winfield, Harry, 983
Winther-Larsen, Hanne C., 370
Wireman, Joy, 1066, 4494
Wirth, Margaret C., 1095
Wise, Mark G., 1505
Wittich, Rolf-Michael, 427, 1974, 3458
Witzel, Karl-Paul, 4704
Woldendorp, Jan W., 1489, 3858
Wolf, Veronica J., 3488
Wolfaardt, Gideon M., 2432
Wolfaardt, G. M., 3352
Wolfe, Roy L., 106, 2029
Woloshuk, C. P., 1661
Wood, Thomas K., 1917
Woodward, Joan, 3589
Work, Thierry, 2925
Wright, Denis J., 1814
Wright, T., 63
Wright, Terah D., 1441
Wu, Kuowei, 1917
Wu, Qingzhong, 2836, 4818, 4826
Wu, Tianyun, 162
Wu, Tzong-Shoon, 1058
Wu, Wei-Min, 403
Wuytack, Elke Y., 945
Wyss, Markus, 1696

Xhou, Xingting, 133
Xiaoqiang, Wu, 4971
Xu, B., 3323
Xu, Feng, 3151

Yagi, O., 1898
Yamada, Hideaki, 4282
Yamamoto, Hiroyuki, 2489
Yamamoto, Takashi, 1054
Yamamura, Midori, 1362
Yamane, Yu-Ichi, 4471
Yamazaki, Isao, 661
Yamazaki, Mikio, 3825
Yan, William, 4558
Yan, Zhen, 785
Yanase, Tsuyoshi, 2142
Yang, Cindy, 1689
Yano, Yutaka, 2572
Yasuda, Fumi, 1715
Yasui, Tetsuji, 4528
Yayanos, A. Aristides, 2105
Yela, Alma, 4093
Yin, Q. Q., 3104
Yoch, Duane C., 3182
Yoda, Kumiko, 4528
Yokosawa, Noriko, 1214
Yoon, Jung-Hoon, 2578
Yoon, Yeong-Hae, 4866
York, Sean W., 4633
Yoshida, Katsuhiko, 2572
Yoshida, Masaru, 454
Yoshida, Shin-Ichi, 2489
Yoshikawa, Koji, 454
Yoshikura, Taro, 1594
Yoshimoto, Hiroyuki, 910
Yoshimura, Tohru, 4651
Young, L. Y., 652, 4759
Youngman, Philip, 3539
Yousef, Ahmed E., 1252
Yu, Cao-Guo, 532
Yu, Jiujiang, 1349
Yuan, Qiaoping, 263
Yue, Stephen T., 2421, 2897
Yüksel, Gülhan Ü., 3438
Yvon, Mireille, 414

Zadrazil, Frantisek, 3919
Zagorec, Monique, 2111, 2117
Zahner, Viviane, 1195
Zahnley, James C., 581
Zala, Marcello, 213, 3776
Zapanta, L., 2913
Zarda, Boris, 2136
Zaritsky, Arieh, 4883, 4971
Zarnt, Grit, 4891
Zavaleta, Amparo I., 1261
Zehnder, A. J. B., 2619
Zehnder, Alexander J. B., 1225, 4053
Zehr, Jonathan P., 2957
Zeikus, J. Gregory, 403, 2273, 3569, 3577
Zelles, Laszlo, 1011
Zennaro, Elisabetta, 2232
Zeyer, Josef, 1171, 2077, 2136
Zézé, Adolphe, 676
Zhang, Donglu, 4216
Zhang, Jian-Hua, 2771
Zhang, Xiaoming, 4759
Zhang, Xihua, 3519
Zhang, Yimin, 3622
Zhang, Yongxiang, 4421
Zhang, Y. Z., 1712
Zhao, Tong, 27
Zheng, Tian Ling, 636
Zheng, Wei, 3085
Zhou, Hui-Ren, 263
Zhou, Jizhong, 2384
Zhou, J.-Z., 270
Zhou, Xin, 1389
Zhou, Xinting, 4564
Zimmer, Emmanuel, 2779
Zimmermann, Sonja, 2175
Zita, Anna, 1168
Zubkov, Mikhail V., 938
Zuckermann, Hanna, 4243
Zumstein, Emmanuelle, 2802
Zwart, Kor B., 474
Zweifel, Ulla Li, 3359

SUBJECT INDEX

VOLUME 63

A511::*luxAB*
L. monocytogenes detection, 2961
AbiK
lactococcal phage resistance, 1274
Abortive infection mechanisms
AbiK in *L. lactis*, 1274
lactococci and bacteriophages, 1244
phage-induced suicide systems, 4370
Acanthamoeba castellanii
infection by *C. pneumoniae*, 1396
Legionella sp. multiplication, 1219
resuscitation of *L. pneumophila*, 2047
Acanthamoebae
obligate intracellular parasites, 115
Acetate production
E. coli, 3205
Acetic acid bacteria
A. pasteurianus growth energetics, 3345
Acetobacter pasteurianus
alcohol dehydrogenase expression, 1131
growth energetics, 3345
Acetogenesis
stimulation in the rumen, 194
Acetogens
enumeration, 296
Acetoin
production by *L. lactis*, 2293
α-Acetolactate
production screening, 793
Acetyl coenzyme A acetyltransferase
Rhizobium sp. (*Cicer*) strain CC 1192, 3432
Acetyl xylan esterase genes
S. thermoviolaceus, 661
Achromatium oxaliferum
oxidation of reduced sulfur species, 1905
Acid adaptation
S. typhimurium sensitization, 461
Acid rain
biodesulfurization, 3164
Acid tolerance
L. lactis, 4210
L. monocytogenes, 2679, 4123
L. monocytogenes mutant, 4945
ruminal bacteria, 2155
Acidiphilium multivorum
arsenic resistance plasmid, 2089
metal resistance, 4523
Acidocella spp.
metal resistance, 4523
Acidophilic bacteria
PCR-mediated detection, 2944
Acinetobacter calcoaceticus
induced natural transformation, 3972
transformation in soil, 1945
Acinetobacter diazotrophicus
Coffea arabica L. as new host, 3676
Acinetobacter spp.
novel competence gene, 4150
AcmA
L. lactis inducible lysis, 2722
Acremonium luzulae
cyclosporin C production, 1739
Actinomycete communities
analysis, 3233
Actinorhizal symbiosis
Frankia strain R43 DNase, 4597
Activated sludge systems
bacterial adhesion to flocs, 1168
phylogenetic analysis of bacteria, 2884
probes to characterize foaming, 1107
substrate uptake by filamentous microorganisms, 3662
Active marine bacterioplankton
enumeration, 1208
16S rRNA hybridization, 1208
Acyrthosiphon pisum
symbiotic bacteria, 3292
Adaptation
L. monocytogenes and stress, 1252
Adhesion
Candida spp. on silicone rubber, 3810
motile *E. coli* and glass, 3474
S. alga and amorphous Fe(III) oxide, 3837
S. gordonii and dental plaque, 1667
Adirondack Mountain lakes
bacterial diversity, 2957
Adsorption
effect of fluorochromes, 3941
Aeration
S. cerevisiae ATF1 gene regulation, 910
Aerobiosis
effects on Annamox sludge, 2446
Aeromonas spp.
drinking water in Sweden, 2708
Aerosolization
effect on gram-negative bacteria, 3585
Aflatoxigenic molds
antibodies for detection, 990
Aflatoxins
A. flavus aflR overexpression, 3995
avnA and synthesis, 1349
biosynthesis, 1054
coproduction by *A. flavus*, 1048
ord1 role, 1661
production by *A. flavus*, 1661
ver-1 gene regulation, 1058
aflR
overexpression in *A. flavus*, 3995
Agaricus bisporus
mitochondrial haplotype effects, 3426
pruA gene, 57
Agricultural soils
flavonoids, 4573
methyl bromide oxidation, 4346
nucleosides, 4573
Agrobacterium tumefaciens
vir inducer in agar, 4578
Agrobacterium vitis
polygalacturonase, 338
Agrocybe aegerita
nonrandom sorting of mitochondria, 4686
Airborne microorganisms
assessment of exposure, 1557
E. coli in Mexico City, 4093
fungal spores in the antarctic, 2232
Airplane sewage
enteric virus detection, 4401
Alcaligenes eutrophus
benzoate degradation with succinate, 2765
chlorophenol degradation, 227
denitrification, 800
P(3HB-*co*-3HV) production, 827
Alcaligenes faecalis
thermostable penicillin G acylase, 3412
Alcaligenes latus
PHB production, 3703
Alcohol acetyltransferase gene
regulation in *S. cerevisiae*, 910
Alcohol dehydrogenase
G. suboxydans, 1131
S. cerevisiae, 4079
tetrahydrofurfuryl alcohol degradation, 4891
Alexandrium spp.
toxin production by bacteria, 239
Algae
proliferating cell nuclear antigen, 4010
Algal blooms
Pseudo-nitzschia spp., 4859
Alkaline fens
bacterial communities, 3111
Alkaline phosphatase
Arthrobacter isolate, 2928
subtilin function studies, 3965
Alkaline stress response
E. faecalis, 812
Alkane and naphthalene catabolism
petroleum hydrocarbon degradation, 3719
Alkanes
anaerobic degradation, 3589
whole-cell bioluminescent reporter, 4053
alkA'::lux reporter plasmids
DNA damage detection, 2566
α-subdivision of the class *Proteobacteria*
echinoderms, 1721
numerical dominance in seawater, 4237
Alpine soils
diesel oil biodegradation, 2660
Alternansucrases
L. mesenteroides, 581
Alum
effect on *V. cholerae* O1 and O139, 3323
ama operon
B. stearothermophilus, 763
Amazon soils
molecular microbial diversity, 2647
Amidase
chiral hydroxamate formation, 3390
Amino acid amidohydrolase genes
B. stearothermophilus ama operon, 763
Amino acid sequence
G. suboxydans alcohol dehydrogenase, 1131
Amino acids
conversion to cheese flavor compounds, 414
lysine-overproducing *S. cerevisiae*, 4800
L-Aminoacylase
B. stearothermophilus, 763
2-Aminomuconic semialdehyde
nitrobenzene degradation, 4839
Aminopeptidase
Cry1Ac-binding protein in moths, 1024
Aminotransferase
L. lactis, 414
Ammonia
oxidation by thermophilic methanotrophs, 474
production by ruminal bacteria, 670
Ammonia availability
N. europaea ammonia monooxygenase regulation, 4588
Ammonia monooxygenase
N. europaea, 4588
Ammonia-oxidizing bacteria
amoA as marker, 4704
coastal sand dunes, 1489
denaturing gradient gel electrophoresis, 1489
N. europaea, 4588
16S rDNA fragment sequencing, 1489
starved biofilm populations, 2281

Ammonium
methane oxidation in marshes, 4734
Ammophila arenaria
detection of fungi in roots, 3858
amoA
marker, 4704
Amoebae
infection by *C. pneumoniae*, 1396
Amorphous Fe(III) oxide
S. alga adhesion, 3837
Amplified fragment length polymorphism
V. vulnificus biotypes, 2600
amy
N. lactamdurans promoter activity, 2977
Amycolatopsis spp.
polylactide degradation, 1637
tert-Amyl methyl ether
biodegradation, 4216
α-Amylase
P. furiosus gene cloning, 3569
S. bovis, 4941
α-Amylase gene
secretion vector for yogurt starters, 4593
Amylopullulanase
P. furiosus gene cloning, 3577
Anabaena spp.
microcystin variation, 2206
mosquito larvicidal activity, 4971
Anaerobic ammonium-oxidizing sludge
effects of aerobiosis, 2446
Anaerobic bacteria
1,2-dichloropropane dechlorination, 2870
taurine sulfur assimilation, 3021
taurine-pyruvate aminotransferase activity, 3021
Anaerobic conditions
bacterial microcolony formation, 2920
Anaerobic dechlorinating bacteria
nested-PCR monitoring, 806
Anaerobic degradation
furfural, 2092
pristane, 2077
Anaerobic digestors
molecular microbial diversity, 2802
Anaerobic fungi
cellulases and xylanases, 628, 4721
Anaerobic mixed cultures
inhibition by methyl fluoride, 4552
vinyl chloride dehalogenation, 4139
Anaerobic reactors
determination of methanogens, 2001
Anaerobic sediments
river nitrite accumulation, 4679
Anaerobic toluene activation
benzylsuccinate formation, 3729
Anaerobic ultramicrobacteria
rice paddy soil, 1382
Anaerobiospirillum succiniciproducens
phosphoenolpyruvate carboxykinase, 2273
Animal growth and health
hydroxymethylbutyric acid, 4191
Annamox sludge
effects of aerobiosis, 2446
Anoxic freshwater sediments
volatile organic sulfur compounds, 4741
Anoxic rice paddy soil
anaerobic ultramicrobacteria, 1382
Anoxygenic photosynthesis
Bahamian microbial mats, 420
P. hollandica, 3507
Antarctic sea ice
psychrophilic bacteria, 3068
Anteiso-$C_{15:0}$ fatty acid
L. monocytogenes growth in the cold, 3887
Anthrax
B. anthracis, 1400
Antibacterial agents
L. acidophilus LA1, 2747
lactobin A, 13
protamine, 1155
red smear cheese, 4812
staphylococcal bacteriocins, 4185
Antibiotic resistance
association with mercury resistance, 4494
E. coli overexpressing *marA*, 1428
environmental fate of a rhizobacterium, 1617
multiresistance in primate fecal flora, 4494
Antibiotic resistance gene markers
elimination from *B. thuringiensis*, 779
Antibiotic susceptibility testing
SYTOX Green, 2421
Antibiotics
fate in the environment, 4272
production by *Pseudomonas* spp., 881
protoanemonin, 427
surfactin, 44
Antibodies
aflatoxigenic molds, 990
zearalenone, 263
Antifungal agents
cyclosporin C, 1739
Antigen 85A gene
expression in *C. glutamicum*, 4392
Antimonite
bioavailability, 4456
Antimycoplasma agents
surfactin, 44
AOAC sporicidal tests
liquid chemical germicides, 3304
Apalachicola Bay
E. coli multiple antibiotic resistance profiles, 2607
Aphanizomenon flos-aquae
Baltic Sea, 1647
Aphids
symbiotic bacteria, 3294
Apoglobin
recombinant hemoglobin production, 4313
Appressorium development
C. trifolii gene expression, 2378
Appressorium differentiation
C. lagenarium, 351
Aquatic bacteria
improved direct viable count, 3643
MAbs for in situ detection, 4534
respiratory activity, 867
Aquatic bdellovibrios
colonization of surfaces, 84
Aquifers
3-chlorobenzoate dehalogenation, 2785
denitrifying bacteria, 2136
microbial population structure, 1498
MTBE contamination, 4216
TCE biodegradation, 3866
α-L-Arabinose
pectin gene expression induction, 2287
Arachidonic acid-producing fungi
mead acid production, 1820
Arbitrarily primed PCR
C. jejuni, 1019
Arbuscular mycorrhizal fungi
identification with ITS, 1756
improvement of development, 4408
phosphorus effects, 3531
Archaea
distribution in the marine ecosystem, 50
diversity in salt marsh sediment, 4729
inhibition by methyl fluoride, 4552
organic solutes, 896
Archaeoglobus fulgidus
stress-induced biofilm formation, 3158
Arctic soil microorganisms
biphenyl and PCB degradation, 3378
Arginine
production by *E. coli* K-12, 33
Arginine mutations
B. thuringiensis CryIAa, 3978
argK
P. syringae pathovars, 282
Aroclor 1260
dechlorination, 4818
L-Arogenate
catabolism by *P. aeruginosa*, 567
Aromatic compounds
biodegradation, 435
Arsenic resistance
A. multivorum and large plasmid, 2089
Arsenic trisulfide
precipitation by *D. auripigmentum*, 2022
Arsenite
bioavailability, 4456
Arthrobacter spp.
alkaline phosphatases, 2928
fluorene degradation, 819
PCB degradation, 1933
Aryl metabolite production
stimulation in *Bjerkandera* strain, 1987
Arylsulfonates
biodegradation, 2403
L-Ascorbic acid
precursor production by *G. oxydans*, 454
Asian freshwater clams
C. parvum oocysts, 2910
Aspergillus awamori
GLA gene fusions and protein production, 488
Aspergillus awamori var. *kawachi*
modified glucoamylase, 2940
Aspergillus flavus
aflatoxin production, 1661
aflR overexpression, 3995
cotton boll invasion, 3548
mycotoxin coproduction, 1048
Aspergillus fumigatus
heat-stable phytase, 1696
Aspergillus niger
cAMP level, sucrose, and light, 2844
cell wall degradation, 4638
dissolved CO_2 effects, 4171
phenanthrene, pyrene transformation, 2906
plant cell wall degradation, 208
rhamnogalacturonan hydrolases, 2507
Aspergillus oryzae
M. thermophila laccase expression, 3151
Aspergillus parasiticus
avnA and aflatoxin synthesis, 1349
Aspergillus tubingensis
cell wall degradation, 4638
Astaxanthin
production by *P. rhodozyma*, 4471
Astragalus
rhizobial genetic diversity, 4748
Astroviruses
drinking water, 3119

ATF1
regulation in *S. cerevisiae*, 910
Atmospheric methane
metabolism, 874
ATP-dependent phosphofructokinase
S. coelicolor, 956
Atrazine
biodegradation, 916
dechlorination, 862
Attachment
activated sludge flocs, 1168
hydrophobicity effects, 1168
Attenuated *P. aeruginosa* strain
characterization, 1389
Attenuated total reflection FTIR spectroscopy
biofilm analysis, 4600
atzB
hydroxyatrazine degradation, 916
Aureobasidium pullulans
fluorescence in situ hybridization, 3261
Autolysins
L. lactis inducible lysis, 2722
Autolysis
L. lactis subsp. *cremoris*, 3757
Autoradiography
active marine bacterioplankton, 1208
Averantin
aflatoxin biosynthesis, 1349
Averufin
aflatoxin biosynthesis, 1349
avnA
aflatoxin biosynthesis, 1349
Azo dyes
reduction by *Sphingomonas* strain, 3684, 3691
Azoarcus spp.
genomic fingerprints, 4331
Azoarcus tolulyticus
PCR detection, 2384

Bacillus anthracis
variable-number tandem repeats, 1400
Bacillus cereus
beef gravy, 1953
diarrheal enterotoxin, 1182
enterotoxin genes, 1054
infant milk formulae, 1182
Bacillus coagulans
heat-sensitive spores, 2246
Bacillus macerans
endo-1,3-1,4-β-glucanase gene cloning, 3336
Bacillus methanolicus
genetic manipulation, 1406
Bacillus sphaericus
fatty acid analysis, 1006
homologous recombination, 4413
mosquitocidal toxin genes, 1195
toxicity to dipteran larvae, 4413
Bacillus spores
detection with MAbs, 482
Bacillus sporothermodurans
detection of spores in milk, 3139
Bacillus stearothermophilus
ama operon, 763
chemical toxicity screening, 4948
growth modeling, 1237
Bacillus subtilis
growth on glucose-citrate, 710
subtilin function studies, 3965
Bacillus subtilis (*natto*)
transducing phage, 4087
Bacillus thuringiensis
activity against spruce budworm, 4132
calcium ion-toxin interaction, 440
Cry1A toxin receptor in *M. sexta*, 3419
Cry1Ac toxin binding in moths, 1024
Cry1Aa and ionic channel formation, 3978
enterotoxin genes, 1054
gene marker elimination, 779
insecticidal protein Vip3A, 532
microbial utilization of toxins, 3561
neutral protease A, 2311
novel *cry* gene detection, 2997
PCR with seven *cry*-group genes, 4883
resistant diamondback moth, 2218
toxin binding to rice pests, 1453
toxin effect on insect midguts, 1679
Bacillus thuringiensis subsp. *aizawai*
resistant diamondback moth, 1814
Bacillus thuringiensis subsp. *fukuokaensis*
mosquitocidal toxin gene, 4664
Bacillus thuringiensis subsp. *israelensis*
gene transfer to *Anabaena* strain, 4971
new *cyt* variant, 2716
toxins and resistance development, 1095
Bacillus thuringiensis subsp. *jegathesan*
Cry19A protein, 4449
δ-endotoxin gene cloning, 3254
Bacillus thuringiensis subsp. *kurstaki*
resistant diamondback moth, 1814
Bacillus thuringiensis subsp. *medellin*
Cyt1Ab protein, 468
Bacillus thuringiensis subsp. *yunnanensis*
crystal protein production, 2792
Back-propagating neural network
microbial community composition, 1762
BacR1
broad-spectrum bacteriocin, 4185
Bacterial biofilms
enzymatic control, disinfection, 3724
Bacterial chromosomal painting
bacterial cell identification, 1118
Bacterial community composition
analysis by back-propagating neural network and cluster analysis of 5S rRNA, 1762
boreal peatlands, 1476
isoelectric focusing, 3176
marine bacterioplankton, 3359
meromictic lakes, 3367
protistan grazing, 587, 596
TCE cometabolism, 1515, 1523
Bacterial contamination
ethanol fermentation, 1
Bacterial identity determination
gene expression, 3698
Bacterial interference
GI tract infections, 506
Bacterial polyesters
R. capsulatus, 3003, 3010
Bacterial surface properties
fluorochrome effect, 3941
Bacteriocins
B. fibrisolvens, 394
BacR1, 4185
butyrivibriocin AR10, 394
enterocin P, 4321
immune *L. lactis*, 4252
lacticin 481, 4252
lactobin A, 13
pediocin PA-1, 524, 2074
purification, 305
susceptible lactic acid bacteria, 3628
Bacteriological agar
A. tumefaciens virulence, 4578
Bacteriophage T4
UV damage repair gene homolog, 1551
Bacteriophages
B. subtilis (*natto*), 4087
distribution in oysters, 2464
lactococcal phage resistance, 1274
lactococci, 2439, 4370
Mamala Bay, Oahu, Hawaii, 133
resistant lactococci, 1244, 1434
S. thermophilus, 3144, 3246
Bacterioplankton
cloned versus cultured SSU rDNAs, 983
distribution in meromictic lake, 3367
dominant species, 3359
novel δ-proteobacterial lineage, 1441
recovery from UV inhibition, 4026
solar radiation effects, 4178
Bahamian microbial mats
anoxygenic photosynthesis, 420
nitrogen fixation, 420
bai-like genes
fecal bacteria, 1185
Bakanae disease of rice
G. fujikuroi, 1838
Baltic Sea cyanobacteria
A. flos-aquae, 1647
N. spumigena, 1647
Bananas
mycotoxins, 364
Bark removal
pulp and paper production, 1995
Barley
fluorescent pseudomonads and pyoverdin production, 277
Barley cysteine endopeptidase B
T. reesei, 4929, 4938
Barley rhizosphere
lux-tagged bacteria, 4920
Barophilic bacteria
P. abyssi, 1230
relationship to psychrophiles, 2105
Barotolerance
E. coli, 945
Batch culture
astaxanthin production, 4471
Bdellovibrios
colonization of surfaces, 84
Beef
E. coli O157:H7, 4127
Beef gravy
B. cereus, 1953
Beer spoilage
L. brevis imaging, 4528
Beet armyworm
biocontrol, 3025
Beetles
fungal symbionts, 621
Beggiatoa spp.
reduced sulfur compound use, 3957
[^{14}C]Benzo[*a*]pyrene
cometabolic biodegradation, 4511
Benzoate
degradation by *A. eutrophus*, 2765
reductive dechlorination, 4698
Benzyl alcohol
formation by *D. escambiense*, 4698
Benzylsuccinate formation
anaerobic toluene activation, 3729
β-carotene
production by *P. blakesleeanus*, 3657

β-Galactosidase
synthesis by *E. coli*, 4116
β-subdivision of the class *Proteobacteria*
ammonia-oxidizing bacteria, 1489
Bifidobacteria
analysis of fecal populations, 3394
Bifidobacterium longum
interaction with *E. coli* in vitro, 506
Bifidobacterium spp.
oligonucleotide probes, 1268
Bile
effect on *V. parahaemolyticus*, 2372
Bile acid 7α-dehydroxylating activity
fecal bacteria, 1185
Bilophila wadsworthia
anaerobic respiration, 2016
taurine reduction, 2016
Bioaerosol exposure assessment
application of methods, 1557
Bioavailability
alkanes in groundwater, 4053
arsenite and antimonite, 4456
mercury, 4267
oxyanions, 4456
Bioblecaching
white rot fungi and kraft pulp, 1749, 4627
Biocatalysts
cellobiose fermentation, 4633
GM1 ganglioside mass production, 1861
Bioconcentration
tributyl tin and oysters, 4107
Biocontrol
fungal plant pathogens, 3189
insects, 440, 468, 532, 574, 1679, 1814, 2218, 2792, 2798, 2997, 3025, 3254, 3419, 4413, 4449, 4664, 4883, 4971
parasitic nematodes, 1357
plant pathogens, 3261
powdery mildew, 2966
pythium root rot, 162
Pythium spp., 2095
rice borers, 1453
Biodegradable plastics
PHB depolymerase, 4844
production by *A. latus*, 3703
production by recombinant *E. coli*, 4765
R. capsulatus, 3003, 3010
Biodegradation
2,4-D, 2266
alkanes, 3589
aromatic compounds, 435
arylsulfonates, 2403
atrazine, 916
[^{14}C]benzo[*a*]pyrene, 4511
benzoate, by *A. eutrophus*, 2765
biofilms, 2432
biphenyl, 3378
brominated phenols, benzoic acids, 3911
chitin, 408
chlorinated aliphatic hydrocarbons, 3607
chlorinated dehydroabietic acids, 3014
3-chlorobenzoate, 2785
4-chlorobiphenyl, 427
4-chlorophenol, 4567
chlorophenols in paper mill effluent, 227
m-cresol, 3170
cyanide, 2729
2,4-D, 317, 1189
2,4-dichlorophenol, 2054
diesel oil in alpine soils, 2660
diethyl ether, 3059
enrofloxacin, 4272
fluorene, 819
gasoline oxygenates, 4216
glyceryl trinitrate, 1712
γ-hexachlorocyclohexane, 3707
hexadecane, 3622
horizontal gene transfer, 2330
hydroxyatrazine, 916
lignin, 3716, 4435
methoxychlor, 1175
methyl *tert*-butyl ether, 3059
monoaromatic hydrocarbons, 1171
naphthalene, 4759
nitrobenzene, 4839
3-nitrophenol, 1421
nylon, 329
PAHs, 3286, 3589
PCBs, 1933, 3096, 3378
pentachlorophenol, 4833
petroleum hydrocarbons, 3719
phenanthrene, 2495, 4759
phenanthrene and pyrene, 3919
phenol, 4899
pristane, 2077
pyridine, 2578
tetrahydrofurfuryl alcohol, 4891
thiocarbamate herbicides, 1911
toluene, 4047
trichloroethylene, 3866
2,4,6-trichlorophenol, 4145
trimethylbenzene isomers, 1171
Biodesulfurization
potential application, 3164
Biofilm communities
succession and convergence, 270
Biofilms
ATR/FT-IR spectroscopy, 4600
dominant species isolation, 4164
drinking water, 4164
enzymatic control, disinfection, 3724
lactic acid production, 2516, 2524, 2533
leaf surfaces, 1570
light microscopy, 4600
nitrite microsensor, 973
poliovirus-1 interaction, 978
predation impact on architecture, 2432
production by *A. fulgidus*, 3158
recovery of starved ammonia oxidizers, 2281
structural, chemical properties, 4600
substratum topography influence, 3352
toxicity to oysters, 4107
trisodium phosphate resistance, 3352
Bioleaching
bacteria in copper sulfide ores, 1344
PCR-mediated detection of bacteria, 2944
T. ferrooxidans, 2586
Bioluminescence
environmental fate of a rhizobacterium, 1617
Biomass
A. pasteurianus growth energetics, 3345
Biomass carbon measurement
heavy metal-amended soil, 39
Biopulping processes
P. gigantea, 1995
Bioremediation
atrazine degradation, 916
bacterial monitoring by nested PCR, 806
C. bifermentans spores, 2100
chlorinated aliphatic hydrocarbons, 3607
cyanide-contaminated soils, 2729
diesel fuel-contaminated soil, 2136
groundwater, 270, 4053
Hg^{2+}-contaminated environments, 2442
nitroaromatic contaminants, 2100
PCB-contaminated sediments, 2836
selenium-contaminated water, 3079
TNT-contaminated soil, 2560
Biosensors
DNA damage detection, 2566
genotoxin screening, 4377
Biosurfactants
bacterial transport through soil, 1866
Candida adhesion inhibition, 3810
effects on cell aggregation, 3622
hexadecane degradation, 3622
Biosynthesis
aflatoxins, 1349
bacterial polyesters, 3003, 3010
β-galactosidase, by *E. coli*, 4116
glycogen, by *P. bryantii*, 4355
optically active amino acids, 4651
polyphosphate, in engineered *E. coli*, 1689
pyrrolnitrin, 2147
syringomycin, 2771
Biotinylated oligonucleotide probes
whole-cell hybridization, 3268
Biotyping
V. cholerae non-O1 in Italy, 4102
Biphenyl
aerobic biodegradation, 3378
Biphenyl dioxygenase
alteration of specificity, 3096
2,2-Bis(*p*-chlorophenyl)-1,1-dichloroethylene
toxic actions, 4948
Bjerkandera spp.
aryl metabolite production, 1987
kraft pulp biobleaching, 1749
Bleached kraft mill effluent
chlorophenol degradation, 227
Bordetella bronchiseptica
pertussis toxin expression, 122
Boreal forest soil
novel crenarchaeotal group, 803
Boreal peatlands
microbial community structure, 1476
Borrelia burgdorferi
sensu lato genomospecies variation, 1102
Bottled water
allochthonous bacteria, 851
Botulism
canned macrobiotic food, 1148
type E toxin and MAbs, 1214
Bovine β-casein
B. linens proteinase, 2468
Bovine feces
Escherichia coli O157, 2549
Bovine liver abscesses
F. necrophorum ribotyping, 4671
Bovine rumen
bacterial glucose transport, 1847
bphC genes
R. erythropolis, 3282
Branched-chain alcohol dehydrogenase
S. cerevisiae, 4079
Brazilian soils
streptomycin producer detection, 1288
Brevibacterium linens
extracellular proteinase, 2468
Listeria inhibition, 4812
Brittle star
subcuticular bacteria, 1721
Broad-host-range cloning vectors
basis on plasmid RK2, 370
Bromoaromatic compounds
biodegradation, 3911

3-Bromobenzoate
reductive dechlorination, 4698
2-Bromoethanesulfonate
chloroethene dechlorination, 4982
reductive acetogenesis in the rumen, 194
Bryozoan larvae
bacterial symbionts, 4612
Bugula neritina
bacterial symbionts, 4612
Burkholderia cepacia
biodiversity, 4485
growth on diethyl ether, 1606
Burkholderia spp.
4-chlorodibenzofuran mineralization, 3458
chlorotoluene metabolism, 1965
toluene degradation, 4047
Butane-grown bacteria
chloroform cometabolism, 3607
Butanol
production by *C. beijerinckii*, 2306
Butyrivibrio fibrisolvens
bacteriocin, 394
chromosomal Tc^r transfer, 3405
cryptic plasmid pOM1 characterization, 1701
16S rRNA hybridization probes, 1256
Butyrivibriocin AR10
B. fibrisolvens, 394

Cadmium
removal by *P. aeruginosa*, 4075
soil microbial populations, 39
Cafeteria roenbergensis
predation on marine vibrios, 749
Calcium ions
CryIC toxin activity, 440
California Current
Synechococcus diversity, 4298
Calves
E. coli O157:H7, 27
Campylobacter jejuni
genotypic diversity, 1874
PCR, 1019
specific detection, confirmation, 4558
Candida albicans
nonylphenol effect on growth, 1312
Candida spp.
adhesion inhibition by *S. thermophilus*, 3810
"*Candidatus* comitans"
association with *C. crocatus*, 719
"*Candidatus* Endobugula sertula"
bryozoan symbiont, 4612
Canned macrobiotic food
C. botulinum, 1148
Canthaxanthin
photosynthetic bradyrhizobia, 1151
L-Carbamoylase
B. stearothermophilus, 763
Carbofuran
mineralization, 1332
Carbon dioxide
denitrifier activity in rhizosphere, 4621
effects on *A. niger*, 4171
Carboxylation
PAH degradation, 4759
Carotene
production by *P. blakesleeanus*, 3657
Carotenoid pigments
photosynthetic bradyrhizobia, 1151
production by *P. rhodozyma*, 4471
casAB operon
cellobiose fermentation, 4633
Cassava bacterial blight
X. axonopodis pv. manihotis, 4427
Casuarinaceae
nodular microsymbionts, 1610
Catabolism
L-arogenate, 567
nitrobenzene, 4839
Cationic bacteriocins
purification, 305
Cattle
Epichloe detection in grasses, 1543
Shiga toxin-producing *E. coli*, 2175
Cell aggregation
biosurfactant effects, 3622
hexadecane degradation, 3622
Cell culture
antimycoplasma agent, 44
C. parvum oocyst detection, 3669
Cell density
recovery of starved ammonia oxidizers, 2281
Cell envelope
protamine-induced permeabilization, 1155
Cell membrane
L. oenos heat shock protein, 609
pediocin PA-1 binding, 4770
Cell surface characteristics
lactobacilli, 1725
Cell surface engineering
starch-utilizing yeast, 1362
Cell surface hydrophobicities
effects on attachment, 1168
Cell surface properties
solvent-tolerant *E. coli* K-12, 3637
Cell wall
degradation by ferulic acid esterases, 4638
α-galactosidase immobilization, 615
Cellobiohydrolase I
T. reesei, 4929
Cellobiose
competing ruminal bacteria, 734
Cellobiose dehydrogenase
cellulose depolymerization, 3804
P. chrysosporium, 796
Cellobiose phosphotransferase
gene cloning, 355
Cellobiose-fermenting bacteria
ethanologenic *E. coli* KO11, 4633
Cellular fatty acid composition
B. sphaericus, 1006
Cellulase
anaerobic fungi, 628, 4721
Cellulase gene expression
regulation in *T. reesei*, 1298
Cellulolytic bacteria
cellulosome, 903
competition for cellobiose, 743
competition for cellulose, 734
Cellulose
competing ruminal bacteria, 734
depolymerization by CDH, 3804
digestion by *F. succinogenes*, 665
Cellulose-binding endoglucanase F
F. succinogenes, 2449
Cellulosome
C. cellulolyticum, 903
Cephalosporin esterase
R. toruloides, 4807
Cephamycin cluster promoters
N. lactamdurans, 2977
Ceriporiopsis subvermispora
ligninolysis, 4435
Chaperonins
Pyrococcus strain, 785
Cheese
Listeria inhibition, 4812
Cheese factories
phage infections, 3144
Cheese flavor compounds
amino acid conversion, 414
B. linens proteinase, 2468
cystathione γ-lyase, 561
L. lactis subsp. *cremoris*, 3757
Cheese making
L. helveticus dipeptidase, 3438
Cheese ripening
P. pentosaceus tripeptidase, 4872
Chelonia mydas
Cryptosporidium spp., 2925
Chemical toxicity screening
B. stearothermophilus, 4948
Chemiluminescent enzyme immunoassay
L. brevis imaging, 4528
Chemoattractants
L-arogenate, 567
Chemoautotrophic bacteria
T. thioparus LV43, 3123
Chemolithoautotrophic bacteria
sulfur production, 2300
Thiomicrospira spp., 3789
Chemolithotrophic bacteria
copper ores, 332
Chemotaxis
Pseudomonas spp., 4111
Chicken feathers
degradation by *S. pactum*, 790
16S chimeras
computational detection, 2338
Chimeric 16S rDNA
16S rRNA gene PCR coamplification, 4645
Chimeric 16S rRNA artifacts
computational detection, 2338
Chiral hydroxamate
formation by *R. erythropolis*, 3390
Chitin
degradation by *V. harveyi*, 408
Chitinase
gene cloning, expression, 834
gene expression in a marine bacterium, 2989
Chitinase/lysozyme
P. aeruginosa, 380
Chlamydia pneumoniae
infection of *A. castellanii*, 1396
Chlamydia spp.
related parasites of acanthamoebae, 115
Chloramphenicol
boosting rRNA probe detection, 2735
Chlorella virus PBCV-1
UV damage repair enzyme, 1551
Chloride-inducible lysis
L. lactis, 4877
Chlorinated aliphatic hydrocarbons
cometabolism by butane-grown bacteria, 3607
Chlorinated benzenes
dechlorination, 1225
Chlorinated dehydroabietic acids
bacterial metabolism, 3014
Chlorinated ethenes
M. trichosporium viability, 4961
transformation yields, 687
Chlorinated hydroquinones
levels in PCP-degrading bacterium, 1883

Chlorinated pyridinol-degrading bacteria
isolation, 4096
Chlorination
bacterial counts in treated water, 1564
H. pylori inactivation, 4969
recovery of *E. coli* culturability, 4204
Chlorine
spore and oocyst inactivation, 1598
Chlorobenzene dioxygenase
chlorotoluene metabolism, 1965
3-Chlorobenzoate
reductive dechlorination, 4698
reductive dehalogenation, 2785
4-Chlorobiphenyl-degrading bacteria
protoanemonin and survival, 427
4-Chlorodibenzofuran
mineralization, 3458
Chlorodinitrobenzene exposure
E. coli survival, 4083
Chloroethenes
dechlorination, 4982
Chloroform
cometabolism by butane-grown bacteria, 3607
4-Chlorophenol
degradation by *C. testosteroni*, 4567
Chlorophenols
biodegradation, 4145
degradation by *A. eutrophus*, 227
Chlorotoluenes
metabolism, 1965
Cholera toxin B subunit
surface display on staphylococci, 2481
Cholesterol-lowering therapy
lovastatin esterase, 1307
Choristoneura fumiferana
Cry9Ca1 toxicity, 4132
Chromosomal painting
bacterial cell identification, 1118
Chromosomal tetracycline resistance element
transfer in *B. fibrisolvens*, 3405
Chronic skin ulcers
M. ulcerans detection, 4135
Clams
bacterial symbiont diversity, 91
Clavibacter michiganensis subsp. *sepedonicus*
nested PCR for detection, 2625
Clavibacter spp.
phylogeny and classification, 2631
Clay-bound insecticidal toxins
microbial utilization, 3561
Climate-relevant trace gases
composting, 1011
Clonally propagated plants
hyperhydricity control, 767
Cloning
A. flavus heat-stable phytase gene, 1696
acetyl xylan esterase genes, 551
B. thuringiensis δ-endotoxin gene, 3254
B. thuringiensis nprA, 2311
broad-host-range cloning vectors, 370
butyrivibrios, 1701
cellobiose phosphotransferase genes, 355
p-coumarate decarboxylase gene, 1939
di- and tripeptide transport protein gene, 2213
E. agglomerans chitinase gene, 834
ectomycorrhiza rDNA ITS, 840
endo-1,3-1,4-β-glucanase gene, 3336
histidine protein kinase genes, 2454
L. sake ptsHI operon, 2111
M. thermophila laccase gene, 3151
mosquitocidal protein gene, 4664
N. europaea dnaK gene, 1777
novel enterotoxin genes, 1054
P. furiosus α-amylase gene, 3569
P. furiosus amylopullulanase gene, 3577
P. putida cti gene, 4292
phosphoenolpyruvate carboxykinase, 2273
rhamnogalacturonan hydrolase genes, 2507
L-sorbose dehydrogenase gene, 454
L-sorbosone dehydrogenase gene, 454
thermostable penicillin G acylase gene, 3412
V. vulnificus hemolysin gene, 3851
vllY, 3851
xylanase genes, 661
Clonostachys compactiuscula
lovastatin esterase, 1307
Clostridium beijerinckii
enhanced butanol production, 2306
Clostridium bifermentans
spores for bioremediation, 2100
Clostridium botulinum
nisin resistance, 2654
strain producing neurotoxins A and B, 1148
type E toxin and MAbs, 1214
Clostridium cellulolyticum
cellulolytic complex, 903
Clostridium coccoides
related homoacetogens in gut, 1732
Clostridium perfringens
detection, 4232
ribotyping, 3992
spore inactivation, 1598
Clostridium spores
detection with MAbs, 482
inactivation, 1598
Clostridium thermocellum JW20
coculture with *T. ethanolicus*, 2949
Cluster analysis of 5S rRNA
microbial community composition, 1762
Coal tar-contaminated field site
naphthalene dioxygenase gene transfer, 2330
Coastal waters
numerically dominant α-proteobacteria, 4237
pasteurellosis of marine fishes, 4986
virus decay, 77
Cochliobolus carbonum
Tox2 chromosomes, 996
Coenzyme A
intracellular pools in bacteria, 553
Coffea arabica L.
host for *A. diazotrophicus*, 3676
Cold-adapted soil microorganisms
diesel oil biodegradation, 2660
Coliform monitoring
new membrane filtration medium, 3526
Coliphage
detection, enumeration, 4564
Mamala Bay, Oahu, Hawaii, 133
polluted marine waters, 4564
Colletotrichum graminicola
nuclear genome, 4001
Colletotrichum lagenarium
melanin biosynthesis genes, 351
Colletotrichum lindemuthianum
pectin gene expression, 2287
Colletotrichum trifolii
gene expression analysis, 2378
Colonization
aquatic bdellovibrios, 84
hot spring microbial mats, 1367
Colony hybridization
Bifidobacterium-specific probe, 1268
Colpodid ciliates
rDNA karyotypic variability, 1602
Comamonas acidovorans
PHB depolymerase, 4844
Comamonas testosteroni
4-chlorophenol degradation, 4567
arylsulfonate degradation, 2403
Cometabolism
trichloroethene, 1515, 1523
Commercial broiler flock
C. jejuni, 1874
Commercial yeast strains
killer yeast growth, fermentation, 2821
Communication mechanisms
R. pachyptila and symbionts, 3494
Community dynamics
manure hot spots, 2224
comP
Acinetobacter competence gene, 4150
Competition
microbial mat bacteria, DMS, and H_2S, 3318
ruminal bacteria and cellobiose, 734
ruminal bacteria and cellulose, 734
Competitive exclusion
B. longum-E. coli interaction, 506
L. casei-S. typhimurium interaction, 513
Competitive interactions
fungal symbionts of beetles, 621
Complex microbial communities
isoelectric focusing, 3176
Composting
ammonia oxidation, 474
trace gases and microbial communities, 1011
Computational methods
16S chimera detection, 2338
Concentration methods
hydroxyapatite adherence, 4069
Conidial germ tube development
C. trifolii gene expression, 2378
Conjugative plasmids
arylsulfonate degradation, 2403
marine environments, 4692
Conjugative transfer
fluorescent pseudomonad genes, 213
Consortia
4-chlorodibenzofuran mineralization, 3458
Contamination
ethanol fermentation, 1
Continuous culture
dissolved CO_2 and *A. niger*, 4171
lysine-overproducing *S. cerevisiae*, 4800
M. sedula, 2391
Copper
soil microbial populations, 39
Copper bioleaching
bacterial community, 1344
Copper ores
chemolithotrophic bacteria, 332
Copper sulfide ores
bacterial community, 1344
Corbicula fluminea
C. *parvum* oocysts, 2910
Corynebacterium glutamicum
M. tuberculosis gene expression, 4392
Corynebacterium spp.
phenylacetaldehyde reductase, 3783

Cosubstrate concentration
xylose conversion by recombinant *S. cerevisiae*, 1959
Cotton bolls
A. flavus invasion, 3548
p-Coumarate decarboxylase gene
L. plantarum, 1939
Coxiella burnetii
detection in milk, 2142
Crassostrea virginica
C. parvum epidemiology, 2086
Crenarchaeota
Lake Michigan sediment, 1178
novel group from boreal soil, 803
Crenarchaeotal ribosomal DNA sequences
freshwater-lake sediments, 321
m-Cresol
anaerobic degradation, 3170
Crohn's disease
M. paratuberculosis, 4975
Cross-polarized magic-angle spinning ^{13}C nuclear magnetic resonance spectroscopy
soil and pythium root rot, 162
Cross-regulation
toluene monooxygenases, 3736
Crown gall
A. tumefaciens and *vir*, 4578
A. vitis polygalacturonase, 338
opines and opine-catabolizing bacteria, 201
Crude oil
[^{14}C]benzo[*a*]pyrene degradation, 4511
Cry1A toxin
M. sexta toxin receptor, 3419
Cry1Ac toxin
binding to moth aminopeptidase, 1024
Cry1C
resistant diamondback moth, 2218
Cry9Ca1
activity against spruce budworm, 4132
Cry11A toxin
improved toxicity against dipterans, 4413
Cry19A
contribution to mosquitocidal activity, 4449
cry genes
extended screening by PCR, 4883
PCR-based detection, 2997
CryIAa
ionic channel formation, 3978
CryIC toxin
interaction with calcium ions, 440
Cryptosporidium parvum
analysis of oocysts, 724
Asian freshwater clams, 2910
feral pigs, 3946
infectivity assay, 2029
oocyst detection by IC-PCR, 3134
oocyst detection in vitro, 3669
oocyst inactivation, 1598
oocyst inactivation rates, 3844
oysters and epidemiology, 2086
PCR detection in water, 106
Cryptosporidium spp.
green turtles, 2925
CryV
characterization, 2798
cti
cloning from *P. putida*, 4292
Culex quinquefasciatus
resistance to *B. thuringiensis* toxins, 1095
Culturability
aerosolized gram-negative bacteria, 3585
Culture conditions
S. zooepidemicus hyaluronic acid, 2759
Cyanide degradation
F. solani, 2729
Cyanobacteria
aquatic bloom inhibition, 2324
Baltic Sea, 1647
nitrogenase activity detection, 4243
Nostoc hydrogenase, 1801
paralytic shellfish poisons, 3104
plant symbionts, 4479
16S rRNA gene PCR primers, 3327
Cyanobacterial hepatotoxins
variation with growth stimuli, 2206
Cyclic AMP
sucrose and light effects in *A. niger*, 2844
Cycloinulooligosaccharide fructanotransferase
S. cerevisiae, 4956
Cyclopiazonic acid
coproduction by *A. flavus*, 1048
Cyclospora spp.
oocyst sporulation, 1631
Cyclosporin C
production by *A. luzulae*, 1739
Cystathione γ-lyase
role in cheese flavor, 561
cyt
B. thuringiensis variant, 2716
Cyt1Ab protein
B. thuringiensis subsp. *medellin*, 468
Cytochrome cd_1 nitrite reductase gene
A. eutrophus denitrification, 800
Cytochrome P-450
novel gene in *P. chrysosporium*, 2741
Cytochrome P-450 monooxygenase
aflatoxin biosynthesis, 1349
Cyto-Clear slides
respiratory activity of aquatic bacteria, 867
Cytolytic toxins
B. thuringiensis, 3254

Dairy starter cultures
phage resistance plasmid, 1434
2,4-D/α-ketoglutarate dioxygenase activity
detection in 2,4-D degraders, 1189
DDT
toxic actions, 4948
Debaryomyces hansenii
halotolerance, 4005
Debittering of citrus juices
R. fascians enzyme, 3385
Dechlorination
Aroclor 1260, 4818
atrazine, 862
bacterial monitoring by nested PCR, 806
chloroethenes, 4982
1,2-dichloropropane, 2870
polychlorinated biphenyls, 1771
2,3,4,6-tetrachlorobiphenyl, 2836, 4826
1,2,4-trichlorobenzene, 1225
2,4,6-trichlorobiphenyl, 4826
Decolorization
Remazol brilliant blue R, 1744
white rot fungi, 2637
Deep subsurface
bacterial PLFA profiles, 1531
microbial population structure, 1498
Deep-sea bacteria
evolutionary relationships, 2105
hydrothermal chimneys, 2876
hydrothermal vent annelids, 1124
hyperthermophilic protease, 3985
Deep-sea fish
intestinal bacteria and PUFAs, 2572
Deforestation
microbial population shifts, 2647
Dehalogenation
brominated phenols, benzoic acids, 3911
Dehydroabietic acid
bacterial metabolism, 3014
Deleya aquamarina
starvation responses, 2686
Delta-endotoxins
binding to rice borer midguts, 1453
gene cloning, characterization, 3254
δ-subdivision of the class *Proteobacteria*
novel lineage from oceans, 1441
Denaturing gradient gel electrophoresis
ammonia-oxidizing bacteria, 1489
bacterioplankton distribution, 3367
fungus detection in grass roots, 3858
hot spring microbial mat bacteria, 1375
Denitrifying bacteria
A. eutrophus, 800
CO_2 increases denitrifier activity, 4621
contaminated aquifer material, 2136
earthworms and N_2O emission, 1878
in situ analysis, 2136
NO and N_2O production, 3872
pyridine degradation, 2578
S. putrefaciens, 2613
6,10,14-trimethylpentadecan-2-one metabolism, 636
Dental plaque
S. gordonii enzyme activity, 1667
3-Deoxy-D-*arabino*-heptulosonate-7-phosphate synthase
E. coli, 761
Deoxynivalenol
bacterial detoxification, 3825
Dermacentor andersoni
endosymbiont, 3933
Desulfomicrobium escambiense
reductive dechlorination, 4698
Desulfomonile tiedjei
reductive dehalogenation and sulfur oxyanion reduction, 3594
Desulfotomaculum auripigmentum
arsenic trisulfide precipitation, 2022
C. parvum infectivity, 2029
Desulfovibrio spp.
hydrogenase, 4360
Desulfurization genes and plasmids
rhodococci, 2915
Detection
A. tolulyticus, 2384
aflatoxigenic molds, 990
antibiotic-producing *Pseudomonas* spp., 881
B. sporothermodurans spores, 3139
B. stearothermophilus spores, 1643
bacteria in the environment, 2863
bacterial spores, 482
Bifidobacterium spp. in food, 1268
bioleaching bacteria, 2944
C. jejuni, 1019, 4558
C. parvum oocysts, 3134
C. parvum in water, 106, 3669
cells expressing specific genes, 4907
chimeric 16S rRNA artifacts, 2338
coliphage in marine waters, 4564
2,4-D-degrading bacteria, 1189

DNA damage, 2566
E. coli, 771
E. coli O157 in bovine feces, 2549
E. coli O157:H7 in beef, 4127
E. coli and total coliforms, 3526
E. coli-specific virulence genes, 703
enteric viruses, 4401
enterotoxigenic *C. perfringens*, 4232
enterotoxin A in food, 2361
Epichloe endophytes in grasses, 1543
epiphytic *A. pullulans*, 3261
fungi in roots of marram grass, 3858
G. lamblia in water, 106
Giardia cysts, 324
hepatitis A virus RNA in oysters, 2460
heroin, 2062
imported wild poliovirus, 519
indigenous bacteria, 4534
iron and manganese oxidizers, 644
L. brevis imaging, 4528
L. monocytogenes, 310, 2961, 4441
L. monocytogenes serovar 4, 1077
lactic acid bacteria, 448
Legionella spp., 2489
M. ulcerans, 4135
methanogens in anaerobic reactors, 2001
moc gene tag system, 602
nitrogenase activity in cyanobacteria, 4243
novel *cry* genes, 2997
P. fluorescens, 602
phosphate stress in plankton, 2411
Phytophthora spp. infecting potato, 1467
phytoplankton cell cycle marker, 4010
potato ring rot bacterium, 2625
Pseudo-nitzschia stable pre-RNA, 4859
rRNA probes for marine bacteria, 2735
RTX toxin genes, 2258
Salmonella strains in foods, 775
streptomycin producers in soil, 1288
tyramide signal amplification, 3268, 3274
V. vulnificus biotype 2, 537
virulent *Y. enterocolitica*, 4952
waterborne *C. parvum*, 2029
waterborne coliforms, 771
Determinative studies
oligonucleotide microchips, 2397
Dextransucrase
L. mesenteroides, 2159
Di- and tripeptide transport protein
L. helveticus, 2213
Diacetyl
production by *L. lactis*, 2293
2,4-Diacetylphloroglucinol, 951
fluorescent *Pseudomonas* spp., 951
Pseudomonas-Globodera interactions, 1357
4′,6-Diamidino-2-phenylindole
water chlorination and bacterial counts, 1564
Diamondback moth
Cry1Ac-binding protein, 1024
resistance to *B. thuringiensis*, 1814
resistance to Cry1C, 2218
Diarrheal enterotoxin
B. cereus, 1182
infant milk formulae, 1182
Dibenzothiophene
bacterial transformation, 3032
Dicamba
O demethylation, 1623
Dicarboxylic acids
production by metabolic engineering, 2695
3,5-Dichlorobenzoate
biodegradation, 1389
2,4-Dichlorophenol
biodegradation, 2054
2,4-Dichlorophenoxyacetic acid
biodegradation, 2266
2,4-Dichlorophenoxyacetic acid pathway
inducing agent, 317
1,2-Dichloropropane
reductive dechlorination, 2870
Diesel oil
biodegradation in alpine soils, 2660
Diet
E. coli O157:H7 shedding by sheep, 3878
Diethyl ether
B. cepacia growth, 1606
biodegradation, 3059
Diferulic acid
plant cell wall degradation, 208
Dimethyl sulfide
anoxic freshwater sediments, 4741
M. sulfidovorans-T. thioparus competition, 3318
Dimethyldithiocarbamic acid
interconversion with thiram, 2857
Dimethylsulfoniopropionate lyases
marine bacteria, 3182
Di-*myo*-inositol-1,1′-phosphate
T. maritima, 338
Dinoflagellates
toxin production by bacteria, 239
Dipeptidases
L. helveticus, 3438
Dipteran larvae
B. sphaericus toxicity, 4413
Direct viable count
aquatic bacteria, 3643
Disinfection
biofilms, 3724
drinking water, 4969
Dissimilatory Fe(III)-reducing bacteria
S. alga, 3837
Dissimilatory nitrate reduction
effects of nitrate and *G. maxima*, 931
river nitrite accumulation, 4679
Dissolved CO_2
effects on *A. niger*, 4171
Dissolved organic carbon
mercury bioavailability, 4267
Distribution
B. burgdorferi sensu lato, 1102
B. sphaericus mosquitocidal toxin genes, 1195
bacterioplankton in lakes, 3367
hot spring microbial mat bacteria, 1375
hydrothermal vent microorganisms, 2876
Listeria spp. and silage, 3695
marine *Archaea*, 50
methane oxidation in marshes, 4734
methane oxidizers in rice fields, 1199
planktonic bacterium rRNA genes, 63
plasmids in marine environments, 4692
T. thioparus LV43 in groundwater, 3123
V. vulnificus phage in oysters, 2464
Disulfide bond reduction
S. pactum, 790
Diversity
Aeromonas strains in drinking water, 2708
Archaea in salt marsh sediment, 4729
B. cepacia from maize rhizosphere, 4485
bacteria in a Carolina bay, 1505
bacteria in mountain lakes, 2957
bacteria in seawater, 983
characterization with T-RFLP, 4516
in situ reverse transcription, 4907
microbes in Amazonian soils, 2647
microbes in anaerobic digestors, 2802
natural bacterial communities, 3176
O. oeni genetics, 1261
opines and opine-catabolizing bacteria, 201
P. syringae, 498
planktonic bacterium rRNA genes, 63
plasmids in marine sediment bacteria, 888
psychrophiles in sea ice, 3068
rbcL gene in phytoplankton, 3600
solemyid clam symbiont, 91
Synechococcus spp., 4298
Thiomicrospira spp., 3789
uncultivated bacteria in soil, 3614
DNA
separation from humic substances, 4993
DNA amplification technologies
detection systems (minireview), 3741
DNA damage
luminescent biosensors, 2566
DNA fingerprinting
2,4,6-TCP-degrading bacterium, 4145
Azoarcus spp., 4331
O. oeni genetic diversity, 1261
DNA hybridization
C. jejuni detection, 4558
DNA polymerase
Pyrococcus strain, 4504
DNA probes
detection of environmental bacteria, 2863
L. monocytogenes serovar 4, 1077
xanthomonads, 4462
DnaK
induction by salt stress, 1826
N. europaea, 1777
DNase
Frankia strain R43, 4597
Douglas fir
mycorrhizosphere bacteria, 1852
symbiosis with *L. bicolor*, 139
Drinking water
Aeromonas strains, 2708
astrovirus survival, 3119
C. parvum infectivity, 2029
C. parvum oocyst detection, 3669
chlorination and *E. coli*, 4204
disinfection by chlorination, 4969
dominant biofilm species, 4164
phosphorus and bacterial growth, 3242
Duplex PCR
enterotoxigenic *C. perfringens*, 4232
Dust
ergosterol and 3-hydroxy fatty acids, 2554
Dust in Mexico City
airborne *E. coli*, 4093
Dwarf cells
rice paddy soil, 1382
Dye permeability assay
C. parvum inactivation, 3844
Dyes
indigo formation, 4287

Earthworms
bacterial plasmid transfer, 679
N_2O emission, 1878
Eastern oyster
C. parvum epidemiology, 2086
Echinoderms
subcuticular bacteria, 1721
Ectomycorrhizal symbiosis
Douglas fir-*Laccaria bicolor*, 139

Ectomycorrhizas
rDNA ITS cloning, expression, 840
Eel pathogens
detection by ELISA, 537
Eggs
S. enterica serovar enteritidis, 1588
5,8,11-Eicosatrienoic acid
production by an *M. alpina* mutant, 1820
Elaeagnus-infective *Frankia* strains
Gymnostoma sp. nodulation, 1610
Electron donor-acceptor complexes
red pigments from *M. ruber*, 2671
Electrostatic interactions
pediocin PA-1 binding, 4770
Endo-1,3-1,4-β-glucanase gene
expression in *L. reuteri*, 3336
Endoglucanase F
F. succinogenes, 2449
Endopolygalacturonase gene expression
C. lindemuthianum, 2287
Endosymbionts
ticks, 3926, 3933
Endotoxins
house dust, 2554
Energy availability
pythium root rot, 162
Ennoblement of stainless steel
L. discophora, 2502
Enrichment culture
genetic diversity effect, 1326
hydrothermal vent microorganisms, 2876
virulent *Y. enterocolitica* from pork, 1657
Enrofloxacin
degradation by *G. striatum*, 4272
Enteric viruses
detection at low levels, 4401
Enterobacter agglomerans
chitinase gene, 834
Enterobacter cloacae
selenium oxyanion reduction, 3079
Enterocin P
characterization, 4321
Enterococcus faecalis
alkaline stress response, 812
Enterococcus faecium
enterocin P, 4321
Enterotoxigenic *C. perfringens*
detection, 4232
Enterotoxin genes
B. cereus and *B. thuringiensis*, 1054
Enterotoxin production
B. cereus in beef gravy, 1953
S. aureus, in food, 2361
Entomopathogenic nematodes
lipids of bacterial symbionts, 2826
Enumeration
acetogens, 296
active marine bacterioplankton, 1208
antibiotic-producing *Pseudomonas* spp., 881
aquatic bacteria, 3643
bacteria in treated water, 1564
coliphage in marine waters, 4564
E. coli and total coliforms, 3526
Epichloe endophytes in grasses, 1543
marine picoplankton, 186
moc gene tag system, 602
uncultured microorganisms, 1028
EnvZ
role in *X. nematophilus*, 962
Enzymatic dephosphorylation
lignin peroxidase, 857
Enzyme immunoassays
E. coli O157 in bovine feces, 2549
Enzyme-linked immunosorbent assay
methanogens in anaerobic reactors, 2001
V. vulnificus biotype 2, 537
Enzymes
denitrifying *S. putrefaciens*, 2613
dicamba O demethylation, 1623
herbicide O demethylation, 1623
stabilization against thermal stress, 4020
thermostability, 4020
Epichloe endophytes in grasses
detection, quantification, 1543
Epidemiology
C. parvum and oysters, 2086
L. monocytogenes, 3374
L. monocytogenes serotype 4b, 3085
STEC in cattle and sheep, 2175
Epilithic microalgae
analysis, 1318
Epiphytic microorganisms
leaf surfaces, 1570, 3261
Epitope specificity
S. typhimurium O-antigen-specific MAbs (letter), 1192
Ergosterol
quantification in house dust, 2554
Erwinia amylovora
plasmid RSF1010, 4604
strain differentiation, 4421
Erythromycin resistance
phage biology studies, 2439
Escherichia coli
3-deoxy-D-*arabino*-heptulosonate-7-phosphate synthase, 761
barotolerance, 945
β-galactosidase synthesis, 4116
bioremediation of Hg^{2+} contamination, 2442
biosensor for genotoxins, 4377
cellobiose fermentation, 4633
cellobiose phosphotransferase, 355
chitinase gene expression, 834
gene transfer vector, 4866
gravity and metabolite production, 4090
growth rate modelling, 2355
heroin esterase expression, 2062
HOCl stress and culturability, 4204
interaction with *B. longum* in vitro, 506
interactions with glass, 3474
metal resistance, 4523
Mexico City dust and air, 4093
multiple antibiotic resistance profiles, 2607
new membrane filtration medium, 3526
nucleic acid stains, 4608
optically active amino acid synthesis, 4651
organic solvent tolerance, 1428
PHB production, 4765
polyphosphate metabolism engineering, 1689
presence-absence tests, 771
recombinant hemoglobin production, 4313
reduction of aerobic acetate production, 3205
steady-state kinetics with 3ppa and glucose, 2619
survival of chlorodinitrobenzene exposure, 4083
survival of iodoacetate exposure, 4083
transformation with large plasmid, 2089
verocytotoxin production, 4585
virulence factors, 4585
Escherichia coli B and C strains
virulence gene detection, 703
Escherichia coli K-12
arginine and urea production, 33
cell surface properties, 3637
solvent-tolerant mutants, 3637
Escherichia coli O157
detection in bovine feces, 2549
Escherichia coli O157:H7
detection in beef, 4127
experimental carriage in calves, 27
shedding by sheep, 3878
Escherichia coli producing Shiga toxins
epidemiology in cattle and sheep, 2175
Essential fatty acids
production by an *M. alpina* mutant, 1820
Esterases
plant cell wall degradation, 208
Estuaries
V. vulnificus phage distribution, 2464
Ethanol
effect on flor yeasts, 7
xylose conversion by recombinant *S. cerevisiae*, 1959
yeast maltose transporter endocytosis inhibition, 3831
Ethanol production
bacterial contamination, 1
effects of lactobacilli, 4158
Ethanologenic *E. coli*
cellobiose fermentation, 4633
Ether lipids
planktonic archaea, 3090
Ethyl *tert*-butyl ether
biodegradation, 4216
Ethylene
nitrogenase activity in cyanobacteria, 4243
production by *P. syringae*, 156
Eucalypt ectomycorrhiza
plant and fungal RNA proportions, 840
Eucalyptus globulus
ectomycorrhiza, 840
European corn borer
insecticidal CryV fragment, 2798
Evolutionary relationships
L. lactis ldh sequences, 694
psychrophiles and barophiles, 2105
Exocellular polysaccharides
S. thermophilus, 3512
Exopolysaccharide
R. meliloti strains, 21
Exotic animal viruses
destruction by hydrogen peroxide, 3916
Experimental bacterial community
protistan grazing, 587, 596
Extracellular lipase
S. cinnamomeus, 3553
Extracellular polymers
methanogenic granules, 403

faeA gene products
cell wall degradation, 4638
Farms
mice and food-borne pathogens, 1588
Fatty acid detoxification
novel polyester synthesis gene detection, 3010
Fatty acid signature analysis
phosphorus effects on AM fungi, 3531
Fatty acids
B. sphaericus, 1006
L. monocytogenes in the cold, 3887
production by an *M. alpina* mutant, 1820

S. cerevisiae lipid peroxidation, 2971
S. enteritidis, 757
verotoxigenic *E. coli*, 757
Feather-degrading bacteria
disulfide bond reduction, 790
Fecal bacteria
bai-like genes, 1185
bifidobacteria and lactobacilli, 3394
Fecal flora of primates
mercury and antibiotic resistance, 4494
phylogeny of *mer* operons, 1066
Fecal pollution
Apalachicola Bay, 2607
Fed-batch culture
astaxanthin production, 4471
PHB production, 4765
Feedback-sensitive enzymes
E. coli, 761
Fens
bacterial communities, 3111
Feral pigs
C. parvum and *Giardia* spp., 3946
Fermentation
killer yeasts, 2821
S. cerevisiae in hyperosmotic media, 145
supply-side analysis, 710
Fermenting olive brines
killer yeasts, 1165
Ferrous ions
T. ferrooxidans bioleaching, 2586
Ferulic acid esterases
cell wall degradation, 4638
Fervidobacterium pennavorans
thermostable pullulanase, 1088
Fibrobacter succinogenes
cellulose digestion, 665
endoglucanase F, 2449
Filamentation-suppressed recombinant *E. coli*
PHB production, 4765
Filamentous bacteria
hydrothermal vent annelids, 1124
molecular identification, 1124
reduced sulfur compound use, 3957
Filamentous foaming
activated sludge systems, 1107
Filamentous fungi
diethyl ether degradation, 3059
gene expression, protein secretion, 4929
heterologous gene expression, 753, 3488
methyl *tert*-butyl ether degradation, 3059
protein production, 488
Filamentous microorganisms
substrate uptake, 3662
Filtration
E. coli O157:H7 detection, 4127
Fimbriae
P. gingivalis, 2318
Fish
P. piscicida, 4986
V. damsela, 3711
Fish nodaviruses
genomic classification, 1633
Fish products
L. monocytogenes, 1338
Fitness
impact of plasmid pQBR103, 1584
P. fluorescens F113, 4261
P. syringae pv. syringae, 4304
Flagellate probes
flow cytometry, 938
Flavobacterium meningosepticum
nucleoside oxidase, 4282
Flavonoids
agricultural soils, 4573
Flavor compounds
acetate esters, 910
alcoholic beverages, 4079
cheese, 414, 561
Flax
retting by fungi, 3950
Flooded rice fields
methane-oxidizing bacteria, 1199
Flor yeasts
mitochondrial DNA loss, 7
Flow cytometry
airborne bacterium exposure assessment, 1557
marine picoplankton, 186
molecular analysis, 4223
species-specific flagellate probes, 938
Fluidized bed reactors
groundwater treatment, 270
microbial diversity, 2802
Fluorene
degradation by an *Arthrobacter* sp., 819
Fluorescence intensity
epilithic microalgae, 1318
Fluorescence in situ hybridization
A. pullulans, 3261
Fluorescent probes
ruminal bacteria, 1143
yeast vacuole labeling, viability testing, 2897
Fluorescent pseudomonads
barley rhizosphere, 4920
chromosomal gene transfer, 213
2,4-diacetylphloroglucinol, 951
iron stress and pyoverdin production, 277
mycorrhizosphere, 1852
Fluorescent in situ hybridization
airborne bacterium exposure assessment, 1557
Fluorescent-PCR–RFLP profiling
mer subclass analysis, 4914
Fluorinated methanes
M. capsulatus methane oxidation, 2952
Fluorochromes
bacterial adsorption, 3941
Foaming
activated sludge systems, 1107
Focus detection method
C. parvum oocyst detection, 3669
Food
B. cereus in beef gravy, 1953
B. stearothermophilus spores, 1643
Bifidobacterium-specific probe, 1268
C. jejuni, 1874
C. perfringens ribotyping, 3992
cheese ripening enzyme, 4872
E. coli O157:H7, 4127
enterotoxigenic *C. perfringens*, 4232
fungal infection of peanuts, 1083
L. monocytogenes, 1338, 2961, 3085, 4441
Listeria inhibition, 4812
NaCl-sensitive *S. aureus*, 1889
natural pigments, 2671
rapid microbial testing, 4069
recombinant protein expression, 4877
S. aureus enterotoxin, 2361
S. enterica serovar enteritidis, 1588
Salmonella strain detection, 775
surface-borne pathogens, 3352
V. vulnificus in seafood, 3308
virulent *Y. enterocolitica*, 4952
virulent *Y. enterocolitica* from pork, 1657
yogurt starter cultures, 4593
Food preservation
B. stearothermophilus growth modeling, 1237
barotolerant *E. coli*, 945
L. monocytogenes adaptation, 1252
mold growth modeling, 3764
pediocin PA-1, 524, 2074
Food thickeners
S. thermophilus polysaccharides, 3512
Foreign proteins
stabilization, solubilization, 785
Formaldehyde oxidation
methylotrophic yeasts, 1715
Francisella spp.
tick endosymbionts, 3933
Frankia spp.
DNase activities, 4597
Gymnostoma sp. nodulation, 1610
Freeze-drying
enzyme stabilization, 4020
Freeze-thaw stress response
S. cerevisiae, 3818
Freshwater cyanobacteria
paralytic shellfish poisons, 3104
Freshwater marshes
methane oxidation, 4734
Fumigated agricultural soils
methyl bromide oxidation, 4346
Fumonisin B_1
production by *G. fujikuroi*, 1838
rice, 1838
FUN-1 stain
yeast vacuole labeling, viability testing, 2897
Fungal spores
seasonality in the antarctic, 2232
Fungi
detection in marram grass roots, 3858
infection of peanuts, 1083
nonylphenol effect on growth, 1312
PAH degradation, 3919
retting efficiencies, 3950
Furfural
anaerobic transformation, 2092
Fusarium oxysporum
linear mitochondrial plasmids, 3311
Fusarium proliferatum
lignin degradation, 3716
Fusarium solani
cyanide degradation, 2729
Fusarium sporotrichioides
Tri11$^-$ mutant, 1685
trichothecene production, 1685
Fusarium spp.
mycotoxins in bananas, 364
rDNA-based phylogeny, 1843
Fusobacterium necrophorum
ribotyping of ruminal isolates, 4671

Galactomannan hydrolysis
T. neapolitana, 169
Galactomyces reessii
HMB production, 4191
α-Galactosidase
S. cerevisiae, 615
T. neapolitana, 169
β-Galactosidase
uptake and hydrolysis by *T. neapolitana*, 969
Gangliotetraosylceramide
B. longum-E. coli interaction, 506

Gas chromatography-mass spectrometry
endotoxins in house dust, 2554
Gasoline oxygenates
biodegradation, 4216
Gene expression
bacterial identity determination, 3698
C. lindemuthianum, 2287
C. trifolii, 2378
Desulfovibrio hydrogenase gene, 4360
di- and tripeptide transport protein gene, 2213
E. coli solvent tolerance, 1428
L. lactis, 4877
L. plantarum p-coumarate decarboxylase gene, 1939
lactic acid bacteria, 4581
M. tuberculosis antigen 85A gene, 4392
P. chrysogenum, 753
P. fluorescens F113, 4261
phosphoenolpyruvate carboxykinase, 2273
Pseudoalteromonas chitinase gene, 2989
R. capsulatus pha genes, 3003
T. reesei, 4929, 4938
T. versicolor laccase gene, 3444
visualization, 4196
Gene inactivation
L. sake, 2117
Gene induction
vir, in *A. tumefaciens*, 4578
Gene markers
amoA, 4704
elimination from *B. thuringiensis*, 779
Gene probes
H. facilis, 335
methanotrophs, 3218
methylotrophs, 3218
mxaF, 3218
PAH-degrading bacteria, 3286
Gene regulation
aflR and aflatoxin synthesis, 3995
ATF1 in *S. cerevisiae*, 910
N. europaea dnaK gene, 1777
T. reesei cellulase gene, 1298
ver-1 and aflatoxin synthesis, 1058
Gene tagging
P. fluorescens detection, 602
Gene transfer
fluorescent pseudomonads, 213
genetically manipulated microorganisms, 1577
H. pylori, 4866
Genetic diversity
cheese factory bacteriophages, 3144
Desulfovibrio hydrogenase gene, 4360
enrichment bias effect, 1326
O. oeni, 1261
rhizobia, 4748
Genetic material
chromosomal painting, 1118
Genetic recombination
Nucleopolyhedrovirus strains, 3025
Genetic transformation
A. calcoaceticus, 3972
A. calcoaceticus in soil, 1945
Acinetobacter strain BD413, 4150
B. methanolicus, 1406
E. coli, 2089
R. solanacearum, 4965
Genetically engineered microorganisms
arginine and urea production, 33
bioremediation of Hg^{2+} contamination, 2442
competitive ability, 1965
enhanced stress resistance, 1965
gene marker elimination, 779
moc gene tag system, 602
plasmid transfer, 679
reporter gene activity, 1965
Genetically manipulated microorganisms
in situ gene transfer, 1577
polyphosphate metabolism engineering, 1689
Genomic classification
fish nodaviruses, 1633
Genomic mapping
L. monocytogenes Scott A, 3480
Genomic variability
Xanthomonas pathovar, 246
Genosensors
oligonucleotide microchips, 2397
Genotoxin screening
biosensor, 4377
Genotypic diversity
C. jejuni, 1874
symbiotic cyanobacteria, 4479
Genotypic fingerprinting
mycorrhizosphere bacteria, 1852
Geographical differentiation
X. axonopodis isolates, 4427
Giardia cysts
detection, 324
Giardia lamblia
PCR detection in water, 106
Giardia spp.
feral pigs, 3946
Gigaspora margarita
intrasporal genetic variation, 676
Gingipain-like peptidase
P. ruminicola, 670
Glass
interactions with motile *E. coli*, 3474
Global warming
earthworms and N_2O emission, 1878
Globodera rostochiensis
interactions with pseudomonad strain, 1357
Gloeophyllum striatum
enrofloxacin degradation, 4272
Glomales
identification with ITS, 1756
β-(1,3-1,4)-Glucanase
S. bovis, 3752
Glucoamylase
modified form in *A. awamori* var. *kawachi*, 2940
Glucoamylase gene
A. awamori protein production, 488
Gluconobacter oxydans
cloning and expression of SDH and SNDH genes, 454
Gluconobacter suboxydans
alcohol dehydrogenase, 1131
insertion sequence IS*1252*8, 1139
Glucose
astaxanthin production, 4471
E. coli cultivation, 2619
Glucose dehydrogenase
pink disease of pineapple, 71
Glucose excess
response of Pdc^- *S. cerevisiae*, 3399
Glucose transport
L. monocytogenes, 543
ruminal bacteria, 1847
Glucose utilization
diacetyl and acetoin production, 2293
enhanced butanol production, 2306
S. castellii, 2779
Glucose-citrate medium
B. subtilis growth, 710
Glucose-fructose cometabolism
Z. mobilis, 3519
β-Glucosidases
T. brockii, 3902
N-Glucosylmonascorubramine
production by *M. ruber*, 2671
N-Glucosylrubropunctamine
production by *M. ruber*, 2671
Glucosyltransferases
alternansucrases, 581
L. mesenteroides, 581
S. gordonii enzyme activity, 1667
Glutamate dehydrogenase
Prevotella spp., 3314
Glutamic acid content
fungal infection of peanuts, 1083
Glutaraldehyde
poliovirus sensitivity, 3199
Glutathione redox cycle
S. cerevisiae, 2857
Glutathione *S*-transferase gene
potential probe for PAH degraders, 3286
Glyceria maxima
effects on nitrate reducers, 931
Glycerol-3-phosphate dehydrogenase
S. cerevisiae mutants, 128
Glycerol synthesis
S. cerevisiae in hyperosmotic media, 145
Glyceryl trinitrate
biodegradation, 1712
Glycine betaine
rescue of NaCl-sensitive *S. aureus* mutant, 1889
salt-stressed *S. meliloti*, 4657
transport in *M. thermophila*, 2252
Glycogen biosynthesis
P. bryantii, 4355
Glycogen formation
P. ruminicola, 1483
Glycolytic pathway
S. coelicolor, 956
Glycosylation
effect on enzymes, 2940
GM1 ganglioside
mass production with marine bacteria, 1861
Gram-negative bacteria
aerosolization, 3585
detection of RTX toxin genes, 2258
multiresistance in primate fecal flora, 4494
phylogeny of *mer* operons, 1066
Gram-positive bacteria
heterologous protein production, 2814
surface protein expression, 2477
Granular media
bacterial interaction, 3941
Grape juice
killer yeast growth, fermentation, 2821
Grapes
powdery mildew biocontrol, 2966
Graphium spp.
diethyl ether degradation, 3059
methyl *tert*-butyl ether degradation, 3059
Grass tissue
Epichloe endophyte detection, 1543
Gravity
E. coli metabolite production, 4090
Green fluorescent protein
Pseudomonas marker, 4543

Green turtles
Cryptosporidium spp., 2925
Greenhouse gases
earthworms and N_2O emission, 1878
methanogenic *Archaea*, 4552
GroEL and GroES
induction by salt stress, 1826
Groundwater
bioremediation, 270, 4053
TCE biodegradation, 3866
Groundwater ecosystems
T. thioparus LV43, 3123
Groundwater upwelling zones
fen bacterial communities, 3111
Group B streptococci
new genetic techniques, 3539
Growth
A. pasteurianus, 3345
B. cereus in beef gravy, 1953
bacteria in drinking water, 3242
food spoilage molds, 3764
killer yeasts, 2821
L. lactis in milk, 2124, 2131
L. lactis on complex or synthetic media, 2665
L. mesenteroides, 2159
L. monocytogenes in the cold, 3887
M. sedula, 2391
modeling *E. coli* growth, 2355
P. florida and laccase, 4120
P. stutzeri on xylenes, 3279
T. ferrooxidans, 2586
Guaiacol
TNT metabolite coupling to soil, 2560
Gymnostoma spp.
nodular microsymbionts, 1610

H^+-ATPase activity
ruminal bacteria, 2155
Habitat range
Thiomicrospira spp., 3789
Haloalkane dehalogenase
S. paucimobilis, 3707
Halocarboxylic acids
reductive dehalogenation, 3333
Halogenated propanes
reductive dechlorination, 2870
Halotolerance
D. hansenii, 4005
Harmful algal blooms
Pseudo-nitzschia spp., 4859
Hawaii
green turtles and *Cryptosporidium* spp., 2925
Heat shock
L. monocytogenes, 3225
Heat shock proteins
Giardia cyst detection, 324
induction by salt stress, 1826
L. lactis, 1826
L. oenos, 609
Heat-sensitive spores
B. coagulans, 2246
Heat-stable enterotoxin
V. cholerae non-O1 in Italy, 2934
Heat-stable phytase
A. fumigatus, 1696
Heavy metals
cadmium removal by bacterium, 4075
resistant *R. sphaeroides*, 4713
S. cerevisiae lipid peroxidation, 2971
soil microbial populations, 39
Helicobacter pylori
gene transfer vector, 4866
inactivation by chlorination, 4969
Hemolysin
V. vulnificus, 3851
Henhouses
mice and food-borne pathogens, 1588
Hepatitis A virus
RNA detection in oysters, 2460
her
heroin esterase expression, 2062
Herbicides
biodegradation, 916, 1911
degradation pathway inducer, 317
O demethylation, 1623
Heroin esterase
expression in *E. coli*, 2062
Heterologous protein production
N. crassa, 3488
S. hyicus, 2814
γ-Hexachlorocyclohexane
biodegradation, 3707
Hexadecane
biodegradation, 3622
Hexavalent uranium
reduction by bacteria, 4385
High-elevation mountain lakes
bacterial classification, 4778
Histidine kinase
role in *X. nematophilus*, 962
Histidine protein kinases
hydrothermal vent tubeworm symbiont, 3494
L. lactis, 2454
hlyA
detection of *L. monocytogenes*, 310
hok/sok
plasmid stability enhancement, 1917
Homoacetogenic bacteria
human gut, 1732
Horizontal gene transfer
naphthalene dioxygenase gene, 2330
Hospital tower cooling water
detection of *Legionella* spp., 2489
Host-symbiont communication mechanisms
R. pachyptila and symbionts, 3494
Hot spring microbial mats
population distributions, 1375
recolonization, 1367
House dust
ergosterol and 3-hydroxy fatty acids, 2554
HRP-labeled oligonucleotides
whole-cell hybridization, 3268
Human intestinal mucosa
bacterial interference, 506, 513
Human intestinal tract
homoacetogens, 1732
Human listeriosis
L. monocytogenes typing, 1338
Humic substances
separation from DNA, 4993
Hyaluronic acid
S. zooepidemicus, 2759
Hydrochlorofluorocarbons
M. capsulatus methane oxidation, 2952
Hydrogen concentration profiles
termite hindgut, 4039
Hydrogen peroxide
efficacy against animal viruses, 3916
ethanol fermentation, 1
formation by *F. meningosepticum*, 4282
Hydrogen sulfide
M. sulfidovorans-T. thioparus competition, 3318
Hydrogenases
Desulfovibrio spp., 4360
Nostoc sp., 1801
Hydrogen-utilizing bacteria
homoacetogens in human gut, 1732
Hydrophobicity
bacterial adhesion to flocs, 1168
role in *S. alga* adhesion, 3837
T. thiooxidans, 2058
Hydrothermal vents
annelids and symbiotic bacteria, 1124, 3494
barophilic bacteria, 1230
cadmium removal by bacterium, 4075
microbial ecology, 2876
P. abyssi, 1230
probes for thermophilic bacteria, 4061
3-Hydroxy-3-methylglutaryl coenzyme A reductase
S. cerevisiae squalene synthesis, 3341
3-Hydroxy fatty acids
quantification in house dust, 2554
Hydroxyapatite adherence
concentration of bacteria, 4069
Hydroxyatrazine
biodegradation, 916
Hydroxymethylbutyric acid
production by *G. reessii*, 4191
Hyperhydricity
oregano tissue cultures, 767
Hyperosmotic media
S. cerevisiae glycerol synthesis, 145
Hyperthermophiles
A. fulgidus, 3158
biofilm formation, 3158
organic solutes, 896
P. abyssi, 1230
P. furiosus, 289, 1160
proteasomes, 1160
Pyrococcus glutamine synthetase, 2472
T. maritima, 338
T. neapolitana, 969
Hyperthermophilic protease
pressure-enhanced activity, 3985
Hyphomicrobium facilis
gene probe, 335
Hypochlorous acid
recovery of *E. coli* culturability, 4204
S. typhimurium sensitization, 461

Ice nucleation reporter gene
iron availability to *P. fluorescens*, 99
Identification
activated sludge bacteria, 2884
arbuscular mycorrhizal fungi, 1756
B. thuringiensis cyt variant, 2716
bacterial symbionts of hydrothermal vent annelids, 1124
chromosomal painting, 1118
novel cytochrome P-450 gene, 2741
Photorhabdus spp., 574
S. abortusovis, 2082
spores in raw milk, 3139
thermophiles in marine vents, 4061
Xenorhabdus spp., 574
Image analysis
respiratory activity of aquatic bacteria, 867
Image analysis cytometry
pelagic bacteria, 4778

Imaging
L. brevis cells, 4528
Immobilized bacteria
microcolony formation, 2920
Immunoaffinity chromatography
nisin A purification, 4990
Immunodetection
phosphate stress in plankton, 2411
Immunofluorescent colony staining
environmental fate of a rhizobacterium, 1617
Immunological responses
fecal bacteria and human hosts, 3394
Immunomagnetic capture PCR
C. parvum oocyst detection, 3134
Immunomagnetic detection
B. stearothermophilus spores, 1643
Immunomagnetic separation systems
E. coli O157 in bovine feces, 2549
In situ classification
pelagic bacteria, 4778
In situ detection
indigenous bacteria, 4534
In situ hybridization
probes for bryozoan symbionts, 4612
In situ PCR
S. typhimurium, 4196
In situ reverse transcription
genetic diversity assessment, 4907
Incubation time
A. flavus mycotoxin coproduction, 1048
(*R*)-1-Indanol
oxidation by naphthalene dioxygenase, 2067
(*S*)-1-Indanol
oxidation by naphthalene dioxygenase, 2067
Indene
metabolism by *Rhodococcus* spp., 151
Indicator organisms
coliphage and water quality, 133
Indigenous bacteria
MAbs for detection, 4534
Indigo
formation by microorganisms, 4287
Indole
indigo formation, 4287
metabolism by *Rhodococcus* spp., 151
Inducible lysis
L. lactis, 2722
Industrial wastewaters
nitrate removal, 2071
Infant milk formulae
B. cereus enterotoxin, 1182
Infectivity
marine virus communities, 2200
waterborne *C. parvum*, 2029
Inorganic sulfides
quantification, 1627
Insecticidal proteins
activity against spruce budworm, 4132
B. thuringiensis, 2311, 2997, 3978
B. thuringiensis subsp. *aizawai*, 1814
B. thuringiensis subsp. *israelensis*, 1095, 2716
B. thuringiensis subsp. *kurstaki*, 1814
B. thuringiensis subsp. *yunnanensis*, 2792
binding to rice borer midguts, 1453
CryV characterization, 2798
effect on insect midguts, 1679
microbial utilization, 3561
resistance in mosquitoes, 1095
resistant diamondback moth, 2218
Vip3A, 532
Insecticides
carbofuran mineralization, 1332
Insects
Cry1A toxin receptor, 3419
fungal symbionts, 621
Insertion sequences
G. suboxydans, 1131
Internal transcribed spacers
arbuscular mycorrhizal fungus identification, 1756
ectomycorrhizas, 840
Phytophthora spp. infecting potato, 1467
International phage set
L. monocytogenes typing, 3374
Intestinal microorganisms
homoacetogens in human gut, 1732
malachite green reduction, 4099
marine bacteria and PUFAs, 2572
P. piscicida, 4986
Intracellular oligopeptidase
L. paracasei, 1284
Intracellular pH
L. lactis acid tolerance, 4210
Intracellular protease PfpI
two forms in *P. furiosus*, 289
Intraspecific differentiation
V. vulnificus biotypes, 2600
Intrasporal genetic variation
G. margarita, 676
Inverse PCR
H. facilis gene probe, 335
Invertase activity
S. cerevisiae glycerol synthesis, 145
Iodoacetate exposure
E. coli survival, 4083
Ionic channel formation
B. thuringiensis Cry1Aa, 3978
Ionophores
L. monocytogenes acid tolerance, 4123
Iron
availability to *P. fluorescens* in soil, 99
Iron stress
P. fluorescens pyoverdin production, 277
Iron-oxidizing bacteria
new isolates characterized, 4784
16S rRNA probes, 644
Iron-reducing bacteria
uranium reduction, 4385
IS*200*
S. abortusovis identification, 2082
IS*12528*
G. suboxydans, 1131
Isoelectric focusing
separation of whole cells, 3176
Isolation
chlorinated pyridinol-degrading bacterium, 4096
dominant biofilm species, 4164
new iron-oxidizing bacteria, 4784
retting fungi, 3950
virulent *Y. enterocolitica* from pork, 1657, 4952
cis-trans Isomerization
unsaturated fatty acids, 4292
Isoprenoid compounds
bacterial metabolism, 636
Italy
V. cholerae non-O1, 2934
Ixodes ricinus
B. burgdorferi sensu lato, 1102
Karyotypic variability
colpodid ciliate rDNA, 1602
KefB and KefC
E. coli survival, 4083
Keratin
degradation by *S. pactum*, 790
α-Keto acids
optically active amino acid synthesis, 4651
Killer loci
plasmid stability enhancement, 1917
Killer yeasts
growth, fermentation activity, 2821
salt effects, in olive brines, 1165
Kinetics
cellulose digestion, 665
E. coli growth with 3ppa and glucose, 2619
Z. mobilis sugar transport, phosphorylation, 3519
Kingdom *Crenarchaeota*
novel group from boreal soil, 803
Klebsiella oxytoca
casAB operon and cellobiose fermentation, 4633
Klebsiella terragena
melamine metabolism, 2832
Kluyveromyces lactis
thermostable xylanase, 3297
Kraft pulp
biobleaching by white rot fungi, 1749, 4627

Laccaria bicolor
Douglas fir mycorrhizosphere, 1852
Laccase gene transcription
regulation in *T. versicolor*, 3444
Laccase genes
basidiomycete CECT 20197, 2637
Laccase isoenzymes
P. eryngii, 2166
Laccase-mediated coupling
TNT metabolites, 2560
Laccases
kraft pulp biobleaching, 4627
M. thermophila, 3151
P. florida growth, 4120
lacL
inactivation in *L. sake*, 2117
Lactate
utilization by *S. ruminantium*, 4853
Lactate dehydrogenase gene
phylogeny in *L. lactis*, 694
L-Lactate dehydrogenase
L. helveticus, 2850
Lactic acid bacteria
bacteriocin susceptibility, 3628
bacteriocins, 13
controlled gene expression, 4581
dipeptidase PepR, 3438
exocellular polysaccharides, 3512
L. helveticus, 3438
ldhL gene and protein, 2850
meat processing plant, 448
phage classification, 3246
phage infections, 3144
L-(+)-Lactic acid biofilm fermentation
plastic composite supports, 2516, 2524, 2533
Lactic acid concentration
E. coli growth modelling, 2355
Lacticin 481
immune *L. lactis*, 4252

Lactobacilli
analysis of fecal populations, 3394
antibacterial activity, 2747
effects on alcoholic fermentation, 4158
Lactobacillus acidophilus
antibacterial activity, 2747
Lactobacillus amylovorus
lactobin A, 13
Lactobacillus brevis
imaging without a microscope, 4528
Lactobacillus casei
Salmonella infection modulation, 513
Lactobacillus casei subsp. *casei*
cell surface characteristics, 1725
prolidase, 314
Lactobacillus casei subsp. *rhamnosus*
L-(+)-lactic acid biofilm fermentation, 2516, 2524, 2533
Lactobacillus helveticus
di- and tripeptide transport, 2213
dipeptidase PepR, 3438
ldhL gene and protein, 2850
Lactobacillus paracasei
intracellular oligopeptidase, 1284
Lactobacillus paracasei subsp. *paracasei*
cell surface characteristics, 1725
Lactobacillus plantarum
p-coumarate decarboxylase gene, 1939
Lactobacillus reuteri
endo-1,3-1,4-β-glucanase gene expression, 3336
Lactobacillus rhamnosus
cell surface characteristics, 1725
Lactobacillus sake
gene inactivation, 2117
ptsHI operon, 2111
Lactobacillus spp.
controlled gene expression, 4581
Lactobin A
amino acid sequence, 13
purification, 13
Lactococcal bacteriophages
phage-induced suicide systems, 4370
studies of biology, 2439
Lactococcal phage resistance plasmids
AbiK in *L. lactis*, 1274
conjugal transfer, 1434
RecA homolog on pNP40, 1244
Lactococcal proteinase
L. lactis growth in milk, 2124, 2131
Lactococci
strain-specific differentiation, 2702
Lactococcin B
purification, 305
Lactococcus lactis
abortive infection mechanism, 1274
aminotransferase, 414
chloride-inducible lysis, 4877
growth, metabolism, and energetics, 2665
growth rate in milk, 2124, 2131
heat shock proteins, 1826
histidine protein kinases, 2454
immunity to lacticin 481, 4252
induced acid tolerance, 4210
inducible lysis, 2722
ldh phylogeny, 694
Lactococcus lactis subsp. *cremoris*
autolytic strains, 3757
cheese flavor compound, 561
cystathione γ-lyase, 561
Lactococcus lactis subsp. *lactis* bv. diacetylactis
α-acetolactate production, 793
diacetyl and acetoin production, 2293
Lactococcus spp.
controlled gene expression, 4581
Lake Michigan
crenarchaeota, 1178
Lakes
bacterial classification, 4778
bacterial diversity, 2957
bacterioplankton distribution, 3367
organic osmolytes in bacteria, 220
Landfills
methane production, 3797
Laser photoacoustic detection
nitrogenase activity in cyanobacteria, 4243
Laser scanning microscopy
C. parvum oocysts, 724
lctF, *lctE*, and *lctG*
bacteriocin immunity, 4252
ldh
phylogeny in *L. lactis*, 694
ldhL gene
L. helveticus, 2850
Leaf surfaces
epiphytic *A. pullulans*, 3261
microbial biofilms, 1570
Legionella pneumophila
resuscitation from VBNC state, 2047
Legionella spp.
detection by seminested PCR, 2489
multiplication in *A. castellanii*, 1219
multiplication in Mono Mac 6 cells, 1219
Legumes
rhizobial genetic diversity, 4748
lemA
P. syringae fitness, 4304
Lepidopteran insect midgut cells
B. thuringiensis toxin effect, 1679
resistance to *B. thuringiensis*, 1814
Leptothrix discophora
stainless steel ennoblement, 2502
Letters to the Editor
S. typhimurium O-antigen-specific MAbs, 1192
Leucomalachite green
malachite green reduction, 4099
Leuconostoc mesenteroides
alternansucrases, 581
chemically defined medium, 301
dextransucrase production, 2159
glucosyltransferases, 581
Leuconostoc oenos
small heat shock protein, 609
Leuconostoc spp.
controlled gene expression, 4581
Ligand specificity and affinity
M. sexta BT-R_1 Cry1A receptor, 3419
Light
effect on *A. niger* cAMP level, 2844
Light microscopy
biofilm analysis, 4600
Light-induced motility
Synechococcus isolates, 2347
Lignin degradation products
aryl metabolite production by a *Bjerkandera* strain, 1987
Lignin model compounds
kraft pulp biobleaching, 4627
Lignin peroxidase assay
peptone and tyrosine interfere, 3301
Lignin peroxidases
enzymatic dephosphorylation, 857
stabilization by tryptophan, 2543
Lignin-degrading fungi
C. subvermispora, 4435
F. proliferatum, 3716
laccase gene family in CECT 20197, 2637
nylon degradation, 329
Lignocellulose
digestion by termites, 4039
Limonoate dehydrogenase
R. fascians, 3385
Limulus amebocyte lysate assay
endotoxins in house dust, 2554
Linear mitochondrial plasmids
F. oxysporum, 3311
Linen fibers
fungal retting efficiencies, 3950
Lipases
protein secretion by *S. hyicus*, 2814
S. cinnamomeus, 3553
Lipid peroxidation
S. cerevisiae, heavy metal effect, 2971
Lipids
bacteria in entomopathogenic nematodes, 2826
planktonic archaea, 3090
Lipopeptide antibiotics
surfactin, 44
Liposomes
pediocin PA-1 binding, 524
Liquid chemical germicides
modified quantitative AOAC sporicidal test, 3304
Listeria monocytogenes
acid tolerance, 4123
acid tolerance mutant, 4945
acid-induced proteins, 2679
adaptation to stress, 1252
detection by RT-PCR, 4441
detection of *hlyA* sequences, 310
epidemic-associated strains, 3085
epidemiological typing, 3374
fish products, 1338
glucose transport, 543
growth at low temperatures, 3887
heat shock and thermotolerance, 3225
luciferase phage reporter assay, 2961
modification of *Sau*3AI restriction, 3085
nisin resistance, 3451
physical and genetic map, 3480
serovar 4 strain DNA probes, 1077
typing, 1338
Listeria spp.
inhibition on red smear cheese, 4812
ribotypes and silage pH, 3695
Lossen rearrangement
S-naproxen formation, 3390
Lovastatin esterase
C. compactiuscula, 1307
Low dissolved-oxygen concentrations
P(3HB-*co*-3HV) production, 827
Low-oxygen conditions
ammonia oxidation, 474
Luciferase phage reporter assay
L. monocytogenes, 2961
Luminescent bacteria
measurement of bioavailable oxyanions, 4456
Luminescent biosensors
DNA damage detection, 2566
Lupine
fluorescent pseudomonads and pyoverdin production, 277
lux-tagged reporter bacteria
barley rhizosphere, 4920

Lyme borreliosis
B. burgdorferi variation, 1102
Lyngbya wollei
paralytic shellfish poisons, 3104
Lysimeters
nonculturable *P. fluorescens* CHA0, 3776
Lysine
production by *S. cerevisiae*, 4800
Lysis
L. lactis, 2722, 4877

M13 minisatellite-primed PCR
intrasporal genetic variation, 676
Maize
B. cepacia biodiversity, 4485
Malachite green
reduction to leucomalachite green, 4099
Malate
utilization by *S. ruminantium*, 4853
Malic enzyme
succinic acid formation, 2695
Malolactic fermentation
O. oeni genetic diversity, 1261
Maltodextrin
B. cereus enterotoxin synthesis, 1182
Maltodextrin-containing medium
enhanced butanol production, 2306
Maltotriose-producing α-amylase
S. bovis, 4941
Mamala Bay, Oahu, Hawaii
coliphage, indigenous phage, 133
Manduca sexta
ligand specificity of BT-R_1 Cry1A receptor, 3419
Manganese
white rot fungi and kraft pulp bleaching, 1749
Manganese-oxidizing bacteria
P. fluorescens, 4793
16S rRNA probes, 644
Mango bacterial black spot
Xanthomonas genomic variability, 246
β-Mannanase
T. neapolitana, 169
β-Mannosidase
T. neapolitana, 169
Mannosylglycerate
enzyme stabilization, 4020
Manure
microbial community dynamics, 2224
P. putida survival in field soil, 1980
marA
E. coli solvent tolerance, 1428
Marine bacteria
boosting rRNA probe detection, 2735
chitinase gene expression, 2989
DMSP lyases, 3182
echinoderm symbionts, 1721
ether lipids, 3090
GM1 ganglioside mass production, 1861
novel δ-proteobacterial lineage, 1441
novel melanogenic bacterium, 3499
nucleic acid stains, 4608
plasmid diversity, 888
plasmid transfer, 749
polyunsaturated fatty acid distribution, 2572
starvation responses, 2686
Marine bacterioplankton
dominant species, 3359
enumeration, 1208
16S rRNA hybridization, 1208
solar radiation effects, 4178
Marine environment
Archaea, 50
bacterioplankton and UV damage, 4026
chitin degradation, 408
coliphage detection, enumeration, 4564
coliphage and indigenous phage, 133
conjugative plasmids, 4692
numerically dominant α-proteobacteria, 4237
pasteurellosis of fishes, 4986
petroleum hydrocarbon degradation, 3589
picoplankton analyses, 186
planktonic bacterium rRNA genes, 71
Marine nanoflagellates
oligonucleotide probes, 938
Marine virus communities
photoreactivation, 2200
Marine water column
planktonic archaea, 3090
Markers
phage resistance plasmid, 1434
Pseudomonas spp., 4543
Marram grass
detection of fungi in roots, 3858
Marshes
diversity of *Archaea*, 4729
methane oxidation, 4734
Mathematical modeling
B. stearothermophilus growth, 1237
m-ColiBlue24 broth
E. coli and total coliforms, 3526
Mead acid
production by an *M. alpina* mutant, 1820
Meat
verocytotoxin-producing *E. coli*, 4585
Meat processing plants
lactic acid bacterium contamination, 448
surface-borne pathogens, 3352
Media
B. subtilis growth, 710
E. coli and total coliforms, 3526
enhanced butanol production, 2306
L. lactis metabolism and energetics, 2665
L. mesenteroides, 301
S. cerevisiae glycerol synthesis, 145
Melamine
metabolism by *K. terragena*, 2832
Melanin biosynthesis genes
temporal transcriptional pattern, 351
Melanogenic marine bacteria
isolation, characterization, 3499
Membrane filtration media
E. coli and total coliforms, 3526
Membrane phospholipids
L. monocytogenes nisin resistance, 3451
Membrane potential
toxin effect on insect midguts, 1679
mer
analysis of subclasses, 4914
mer operons
phylogeny, 1066
Mercury
DOC and bioavailability, 4267
Mercury resistance
multiresistance in primate fecal flora, 4494
Mercury resistance operons
mer subclass analysis, 4914
phylogeny, 1066
Mercury-contaminated environments
bioremediation, 2442
mer-lux bioassay, 3291
mer-lux bioassay
sensitivity, 3291
Meromictic lakes
bacterial population dynamics, 2181
bacterioplankton distribution, 3367
Mesophilic bacteria
TCE biodegradation, 3866
meta cleavage pathway
4-chlorophenol degradation, 4567
Metabolic engineering
succinic acid formation, 2695
Metabolic fingerprinting
mycorrhizosphere bacteria, 1852
Metabolism
atmospheric methane, 874
chlorotoluenes, 1965
L. lactis on complex or synthetic media, 2665
melamine, by *K. terragena*, 2832
naphthalene, 151, 4759
P. fluorescens in barley rhizosphere, 4920
phenanthrene, 4759
toluene, 652
6,10,14-trimethylpentadecan-2-one, 636
Metabolites
E. coli and microgravity, 4090
enrofloxacin degradation, 4272
fluorene degradation, 819
phenanthrene, pyrene transformation, 2906
production by *Bjerkandera* strain, 1987
meta-fission pathway
2,4-D degradation, 2054
Metal resistance
Acidocella strains, 4523
plasmid-mediated transfer, 4523
Metallosphaera sedula
stressed-phase growth, 2391
Methane
oxidation by *Methylobacter* strain, 4617
Methane oxidation
inhibition in *M. capsulatus*, 2952
Methane-oxidizing bacteria
aquatic macrophyte rhizosphere, 3051
atmospheric methane metabolism, 874
flooded rice soil, 1199
freshwater marshes, 4734
Methanethiol
anoxic freshwater sediments, 4741
Methanococcus deltae
furfural transformation, 2092
Methanococcus jannaschii
hyperthermophilic protease, 3985
Methanogenesis
inhibition by methyl fluoride, 4552
Methanogenic granules
extracellular polymers, 402
Methanogens
chloroethene dechlorination, 4982
determination in anaerobic reactors, 2001
ELISA, 2001
extracellular polymers, 403
glycine betaine transport, 2252
landfills, 3797
Methanohalophilus portucalensis
osmolyte precursor effects, 4032
Methanol dehydrogenase gene *mxaF*
gene probe, 3218
Methanosarcina spp.
whole-cell hybridization, 3043
Methanosarcina thermophila
glycine betaine transport, 2252

Methanotrophs
ammonia oxidation, 474
aquatic macrophyte rhizosphere, 3051
chlorinated ethene transformation, 687
gene probes, 3218
methane, TCE oxidation, 4617
Methoxychlor
biodegradation, 1175
Methyl bromide
oxidation in soils, 4346
Methyl fluoride
methanogenesis inhibition, 4552
Methyl formate synthase
methylotrophic yeasts, 1715
Methyl *tert*-butyl ether
biodegradation, 3059, 4216
Methylmercury
bioavailability, 4267
Methylobacter spp.
methane, TCE oxidation, 4617
Methylobacterium spp.
identification by PCR, 1594
Methylococcus capsulatus
methane oxidation inhibition, 2952
Methylocystis sp. strain M
sMMO gene cluster, 1898
Methylophaga sulfidovorans
competition for DMS and H_2S, 3318
Methylosinus trichosporium
chloroform cometabolism, 3607
effect of chlorinated ethene conversion, 4961
Methylotrophic bacteria
B. methanolicus, 1406
gene probes, 3218
genetic manipulation, 1406
Methylotrophic yeasts
methyl formate synthase, 1715
Mevalonate pathway
rate-limiting enzymes, 3341
Mexico City
airborne *E. coli*, 4093
Mice
S. enterica serovar enteritidis, 1588
Microaerobiosis
effects on Annamox sludge, 2446
Microalgae
analysis, 1318
Microautoradiography
substrate uptake study, 3662
Microbial consortia
chlorinated benzene dechlorination, 1225
Microbial density
pea aphid symbionts, 3294
Microbial diversity
Amazonian soils, 2647
Microbial Identification System
whole-cell fatty acid profiles, 757
Microbial mats
anoxygenic photosynthesis, 420
competition for DMS and H_2S, 3318
M. sulfidovorans-T. thioparus competition, 3318
nitrogen fixation, 420
Microbial succession
open-windrow composting, 1011
TCE cometabolism, 1515, 1523
Microcin B17
production in microgravity, 4090
Microcolony formation
immobilized bacteria, 2920
Microcystin-producing aquatic blooms
inhibition by potassium, 2324
Microcystins
variation in *Anabaena* spp., 2206
Microcystis spp.
potassium inhibits growth, 2324
Microgravity
E. coli metabolite production, 4090
Microscope photometer
analysis of microalgae, 1318
Microsensors
biofilm profiling, 973
Midgut epithelium cells of insects
lysis by Vips, 532
MIG1
silencing in *S. cerevisiae*, 2366
Milk
B. sporothermodurans spores, 3139
C. burnetii detection, 2142
L. lactis growth, 2124, 2131
M. paratuberculosis, 4975
tetracycline residue screening, 4116
Mineralization
carbofuran, 1332
3-chlorobenzoate, 2785
Minireviews
nucleic acid amplification, 3741
Mitchondrial plasmids
F. oxysporum, 3311
Mitochondria
nonrandom sorting in *A. aegerita*, 4686
Mitochondrial alcohol dehydrogenase
methylotrophic yeasts, 1715
Mitochondrial DNA
loss caused by ethanol, 7
Mitochondrial haplotype
growth effects in *A. bisporus*, 3426
Mixed starter culture populations
differentiation of lactococci, 2702
Mixed-oxidant disinfectants
spore and oocyst inactivation, 1598
moc gene tag
P. fluorescens detection, 602
Modeling
B. stearothermophilus growth, 1237
chemical toxicity screening, 4948
E. coli growth, 2355
food spoilage mold growth, 3764
methane production in landfills, 3797
Molecular beacons
ruminal bacteria, 1143
Molecular detection
imported wild poliovirus, 519
Molecular ecology
phage infections, 3144
Molecular epidemiological survey
rotaviruses in sewage, 1794
Monascus ruber
new pigments and EDA complexes, 2671
Moniliformin
production by *G. fujikuroi*, 1838
rice, 1838
Mono Lake
organic osmolytes in bacteria, 220
Mono Mac 6 cells
Legionella sp. multiplication, 1219
Monoaromatic hydrocarbons
biodegradation, 1171
Monocentric anaerobic fungi
cellulases and xylanases, 628
Monoclonal antibodies
bacterial spore detection, 482
C. botulinum type E toxin, 1214
detection of indigenous bacteria, 4534
S. typhimurium (letter), 1192
Monooxygenation
chlorotoluenes, 1965
Monospecific polyclonal antisera
R. leguminosarum bv. trifolii, 2038
Mortierella alpina
mead acid production, 1820
Mosquitocidal toxin genes
B. sphaericus, 1195, 4413
B. thuringiensis, 3254
B. thuringiensis cyt variant, 2716
B. thuringiensis subsp. *jegathesan*, 4449
cloning, characterization, 4664
transfer to *Anabaena* strain, 4971
Mosquitoes
resistance to *B. thuringiensis* toxins, 1095
Most-probable-number assay
acetogen enumeration, 296
Motile *E. coli*
interactions with glass, 3474
Motility
R. solanacearum, 844
Synechococcus isolates, 2347
Mouse tumor necrosis factor alpha
secretory production by *S. lividans*, 1808
Multiple antibiotic resistance profiles
E. coli in Apalachicola Bay, 2607
point source and nonpoint source pollution, 2607
Multiplex PCR
E. coli O157:H7 in beef, 4127
Mushrooms
A. bisporus pnuA gene, 57
mitochondrial haplotype effects, 3426
Mutational analysis
pcpA and PCP degradation, 4833
mxaF
use as functional gene probe, 3218
Mycelial growth
A. bisporus heterokaryons, 3426
Myceliophthora thermophila
laccase gene, 3151
Mycobacteria
isolation from water, 547
Mycobacterium paratuberculosis
inactivation in milk, 4975
Mycobacterium tuberculosis
antigen 85A gene expression, 4392
Mycobacterium ulcerans
detection in environmental samples, 4135
Mycobacterium vaccae
chloroform cometabolism, 3607
Mycorrhiza helper bacteria
fungus-Douglas fir symbiosis, 139
Mycorrhizosphere
fluorescent pseudomonads, 1852
Mycotoxins
bacterial detoxification, 3825
bananas, 364
deoxynivalenol, 3825
production by *G. fujikuroi*, 1838
rice, 1838
zearalenone, 263

nahAc
natural horizontal transfer, 2330
Naphthalene
biodegradation, 4759
metabolism by *Rhodococcus* spp., 151
Pseudomonas chemotaxis, 4111
Naphthalene dioxygenase
(*R*)- and (*S*)-indanol oxidation, 2067
Naphthalene dioxygenase gene
natural horizontal transfer, 2330

Naphthalenesulfonic acid degradation pathway
azo dye reduction, 3684, 3691
Naphthothiophenes
bacterial transformations, 3463
S-Naproxen
formation by *R. erythropolis*, 3390
Natto
B. subtilis transducing phage, 4087
Natural microbial communities
molecular analyses, 4993
Nested PCR
anaerobic dechlorinating bacteria, 806
potato ring rot bacterium detection, 2625
Neurospora crassa
nonylphenol effect on growth, 1312
plant protein expression, 3488
Neurospora reverse transcriptase gene
similarity to *F. oxysporum* mitochondrial plasmid genes, 3311
Neurotoxins
C. botulinum, 1148, 1214
Neutral protease A
B. thuringiensis, 2311
nirs
A. eutrophus denitrification, 800
Nisin
control of *B. cereus* in beef gravy, 1953
gene expression in lactic acid bacteria, 4581
L. monocytogenes acid tolerance, 4123
susceptible lactic acid bacteria, 3628
Nisin A
one-step purification, 4990
Nisin resistance
C. botulinum, 2654
L. monocytogenes, 3451
Nitrate
removal from wastewaters, 2071
Nitrate availability
effects on nitrate reducers, 931
Nitrate injection
effect on oil field bacteria, 1785
Nitrate-reducing bacteria
effects of nitrate and *G. maxima*, 931
rat tongues, 924
Nitrate-reducing microcosms
pristane degradation, 2077
Nitric oxide
production by nitrifiers and denitrifiers, 3872
Nitrification-denitrification
thermophilic methanotrophs, 474
Nitrifying bacteria
Annamox sludge, 2446
NO and N_2O production, 3872
oligonucleotide microchips, 2397
Nitrite
accumulation in rivers, 4679
Nitrite microsensors
biofilm profiling, 973
Nitroaromatic compounds
bioremediation, 2100
Nitrobenzene
biodegradation, 4839
Nitrogen availability
killer yeast growth, fermentation, 2821
Nitrogen cycling
TCE and toluene effects, 4015
Nitrogen fixation
A. diazotrophicus, 3676
acetyl-CoA acetyltransferase, 3432
Azoarcus spp., 4331
Bahamian microbial mats, 420
Baltic Sea cyanobacteria, 1647
Casuarinaceae, 1610
Elaeagnus-infective *Frankia* strains, 1610
Gymnostoma spp., 1610
Rhizobium sp. (*Cicer*) strain CC 1192, 3432
Sesbania spp. and rhizobia, 1040
Nitrogen limitation
PHB production by *A. latus*, 3703
Nitrogen transformations
wetland soils, 3648
Nitrogenase activity
detection in cyanobacteria, 4243
3-Nitrophenol
catabolism by *R. eutropha*, 1421
4-Nitrophenoxyacetic acid
detection of 2,4-D/α-ketoglutarate dioxygenase activity, 1189
Nitrosomonas europaea
ammonia monooxygenase regulation, 4588
dnaK gene, 1777
Nitrous oxide
emission by earthworms, 1878
production by nitrifiers and denitrifiers, 3872
Nocardia lactamdurans
cephamycin cluster promoters, 2977
Nocardioides spp.
2,4,6-TCP degradation, 4145
Nodularia spumigena
Baltic Sea, 1647
Nodularin production
Baltic Sea cyanobacteria, 1647
Nodulation
Casuarinaceae, 1610
Elaeagnus-infective *Frankia* strains, 1610
Gymnostoma spp., 1610
Sesbania stems and roots, 1040
Nonanoic acid
Rhizopus spore germination, 178
Nonesterified coenzyme A
intracellular pools in bacteria, 553
Nonheme haloperoxidase
R. erythropolis, 1911
Nonionic surfactants
nonylphenol and fungal growth, 1312
Nonphenolic lignin structures
degradation by *C. subvermispora*, 4435
Nonylphenol
fungal growth effect, 1312
Nostoc spp.
hydrogenases, 1801
Novel taxa
bacteria in a Carolina bay, 1505
nprA
B. thuringiensis neutral protease A, 2311
Nuclear genome
C. graminicola, 4001
Nuclear waste repositories
Yucca Mountain, Nevada, 3128
Nucleic acid sequence-based amplification
L. monocytogenes detection, 310
Nucleic acid stains
bacterial viability testing, 2421
E. coli, 4608
marine prokaryotes, 4608
picoplankton analyses, 186
Nucleic acids
amplification (minireview), 3741
nonculturable *V. vulnificus*, 2754
Nucleoid staining
active marine bacterioplankton, 1208
Nucleopolyhedrovirus
recombination between strains, 3025
Nucleoside oxidase
F. meningosepticum, 4282
Nucleosides
agricultural soils, 4573
Nucleotide sequence
A. succiniciproducens pckA, 2273
cti from *P. putida*, 4292
N. europaea dnaK gene, 1777
O. oeni genetic diversity, 1261
pOM1, 1701
S. bovis α-amylase gene, 4941
styrene catabolism genes, 2232
T. brockii cgl operon, 3902
V. vulnificus vllY, 3851
Nutrient composition
impact on biofilm architecture, 2432
Nylon biodegradation
lignin-degrading fungi, 329

O demethylation
herbicide dicamba, 1623
Obligate intracellular bacterial parasites
acanthamoebae, 115
Octopus Spring
Synechococcus motility, 2347
Oenococcus oeni
genetic diversity, 1261
Oil field bacteria
effect of nitrate injection, 1785
Oligonucleotide microchips
genosensors, 2397
Oligonucleotide probes
activated sludge systems, 1107
Bifidobacterium spp., 1268
bryozoan symbionts, 4612
C. jejuni-specific PCR, 1019
marine nanoflagellates, 938
Methanosarcina cells, 3043
thermophiles in marine vents, 4061
whole-cell hybridization, 3268, 3274
Oligopeptidase
L. paracasei, 1284
Oligotrophic 2,4-D-degrading bacteria
pristine environments, 2266
Olive brines
killer yeasts, 1165
O-methylsterigmatocystin
A. flavus aflatoxin production, 1661
Onobrychis
rhizobial genetic diversity, 4748
Oocysts
Asian freshwater clams, 2910
C. parvum inactivation, 3844
Cyclospora spp., 1631
detection by IC-PCR, 3134
detection in vitro, 3669
green turtles, 2925
laser scanning microscopy, 724
video microscopy, 724
Opaque and translucent morphotypes
V. vulnificus thermal-death times, 3308
Open-windrow composting
climate-relevant trace gases, 1011
Ophiactis balli
subcuticular bacteria, 1721
Opines
catabolism by bacteria, 201
Optically active amino acids
synthesis with *E. coli*, 4651
Optically pure compounds
formation by *R. erythropolis*, 3390

(*R*)- and (*S*)-indanol, 2067
lactic acid, 2533
ord1
A. flavus aflatoxin production, 1661
Oregano tissue cultures
hyperhydricity control, 767
Organic acids
production by *A. pasteurianus*, 3345
utilization by *S. ruminantium*, 4853
Organic complexes
uranium reduction, 4385
Organic osmolytes
Mono Lake bacteria, 220
Organic solutes
Archaea, 896
Ornithine carbamoyltransferase gene sequence
P. syringae pathovars, 282
Orpinomyces spp.
cellulases and xylanases, 628, 4721
Osmolyte precursors
effects on *M. portucalensis*, 4032
Osmotic adaptation
glycine betaine transport, 2252
M. portucalensis, 4032
Osmotic shock
L. lactis, 1826
Osmotic stress
NaCl-sensitive *S. aureus*, 1889
salt-stressed *S. meliloti*, 4657
Ostrinia nubilalis
insecticidal CryV fragment, 2798
Outer membrane proteins
model for heterologous protein production, 2814
production by *X. nematophilus*, 962
Oxidation
nucleosides, 4282
Oxidoreductase gene
A. flavus aflatoxin production, 1661
Oxyanions
bioavailability, 4456
Oxygen
astaxanthin production, 4471
Oxygen availability
methane oxidation in wetlands, 3051
Oxyphotobacteria
16S rRNA classification, 2593
Oxytropis
rhizobial genetic diversity, 4748
Oysters
C. parvum epidemiology, 2086
hepatitis A virus RNA detection, 2460
tributyl tin toxicity, 4107
V. vulnificus phage distribution, 2464
Ozone destruction
methyl bromide oxidation, 4346

P2c
A. flavus invasion of cotton bolls, 3548
Pantoea citrea
pink disease of pineapple, 71
Paper mill effluent
chlorophenol degradation, 227
Paralytic shellfish toxins
L. wollei, 3104
production by bacteria, 239
Parasitic nematodes
biocontrol, 1357
parDE
plasmid stability enhancement, 1917
Particulate methane monooxygenase
chlorinated ethene transformation, 687
Pasteurella piscicida
Japanese coastal fishes, 4986
Pasteurization
raw milk, 4975
pckA
phosphoenolpyruvate carboxykinase, 2273
pcpA
mutational analysis, 4833
role in PCP degradation, 4833
PCR
A. tolulyticus detection, 2384
actinomycete communities, 3233
Azoarcus genomic fingerprints, 4331
B. thuringiensis cry-group genes, 4883
Bifidobacterium-specific probe, 1268
C. jejuni, 1019, 4558
C. parvum detection, 106
C. thermocellum JW20 contaminant, 2949
chimeric 16S rDNA formation, 4645
coliphage detection, enumeration, 4564
detection of bioleaching bacteria, 2944
detection of spores in milk, 3139
Epichloe endophytes in grasses, 1543
fate of liberated viral RNA in wastewater, 2932
G. lamblia detection, 106
Methyiobacterium sp. identification, 1594
novel *cry* gene detection, 2997
nucleic acid amplification, 3741
Phytophthora spp., 1467
primers to amplify cyanobacterial 16S rRNA genes, 3327
Pyrococcus DNA polymerase, 4504
S. abortusovis identification, 2082
S. typhimurium, 4196
PCR—enzyme-linked immunosorbent assay
C. burnetii detection in milk, 2142
PCR-RFLP analysis
P. syringae, 498
Pea aphids
symbiotic bacteria, 3294
Peanuts
fungal infection, 1083
Pectin gene
expression in *C. lindemuthianum*, 2287
Pediocin PA-1
binding to phospholipid vesicles, 4770
P. parvulus, 2074
physicochemical characterization, 524
purification, 305
susceptible lactic acid bacteria, 3628
Pediococcus parvulus
pediocin PA-1 production, 2074
Pediococcus pentosaceus
tripeptidase, 4872
pehA
A. vitis polygalacturonase, 338
Pelagic bacteria
in situ classification, 4778
Penicillin G acylase
gene cloning and analysis, 3412
Penicillium chrysogenum
heterologous gene expression, 753
Penicillium corylophilum Dierckx
glyceryl trinitrate degradation, 1712
Penicillium simplicissimum
vanillyl-alcohol oxidase induction, 435
Pentachlorophenol
biodegradation, 1883, 4833
Peppers
xanthomonad DNA probe, 4462
Peptidase
P. ruminicola, 670
Peptone
interference in LiP assay, 3301
Peptostreptococcus productus
reductive acetogenesis in the rumen, 194
Periodontal disease
P. gingivalis, 2318
Permeabilization
cell envelopes, by protamine, 1155
Pertussis toxin
expression in *B. bronchiseptica*, 122
Petroleum hydrocarbons
biodegradation, 3719
Petroleum-contaminated sediments
alkane and PAH degradation, 3589
pH
B. stearothermophilus growth, 1237
E. coli growth modelling, 2355
L. lactis acid tolerance, 4210
Listeria spp. and silage, 3695
N. europaea ammonia monooxygenase regulation, 4588
new iron-oxidizing bacteria, 4784
Rhizopus spore germination, 178
ruminal bacteria and acid tolerance, 2155
pha genes
R. capsulatus, 3003, 3010
Phaffia rhodozyma
astaxanthin production, 4471
Phage typing
L. monocytogenes, 3374
Phanerochaete chrysosporium
cellobiose dehydrogenase, 796
lignin peroxidase dephosphorylation, 857
methoxychlor degradation, 1175
novel cytochrome P-450 gene, 2741
omnipresent bacteria, 2913
pheBA
acquisition by *Pseudomonas*, 4899
Phenanthrene
biodegradation, 4759
degradation by fungi, 3919
degradation by *P. ostreatus*, 2495
transformation by *A. niger*, 2906
Phenol
degradation by *Pseudomonas* spp., 4899
TCE cometabolism, 1515, 1523
Phenotype
S. alga differentiation from *S. putrefaciens*, 2189
symbiotic cyanobacteria, 4479
Phenylacetaldehyde reductase
Corynebacterium strain ST-10, 3783
Phenylalanine-sensitive enzymes
E. coli, 761
3-Phenylpropionic acid
E. coli cultivation, 2619
Phlebiopsis gigantea
pulp and paper production, 1995
PhoB
R. meliloti phosphate stress, 4978
Phosphate
arbuscular mycorrhiza development, 4408
Phosphate starvation response
P. fluorescens, 4920
Phosphate stress
photosynthetic picoplankton, 2411
R. meliloti, 4978
Phosphoenolpyruvate carboxykinase
A. succiniciproducens, 2273
Phosphofructokinase
S. coelicolor, 956

Phospholipid fatty acid profiles
boreal peatland microbe communities, 1476
manure microbial community, 2224
surface, subsurface bacteria, 1531
Phospholipid vesicles
pediocin PA-1 binding, 4770
Phosphorus
bacterial growth in drinking water, 3242
effects on AM fungi, 3531
Phosphotransferase system
L. sake, 2111, 2117
Photon-counting television camera
L. brevis imaging, 4528
Photoreactivation
marine virus communities, 2200
Photorhabdus luminescens
lipid composition and properties, 2826
Photorhabdus spp.
identification, 574
Photosynthetic *Bradyrhizobium* strains
canthaxanthin, 1151
Photosynthetic picoplankton
phosphate stress detection, 2411
Photosynthetic prokaryotes
P. hollandica, 3507
Phycomyces blakesleeanus
β-carotene production, 3657
Phyllosphere
epiphytic *A. pullulans*, 3261
microbial biofilms, 1570
Phylogeny
activated sludge bacteria, 2884
Clavibacter and *Rathayibacter* spp., 2631
ldh sequences in *L. lactis*, 694
trichothecene-producing *Fusarium* strains, 1843
Physiology
denitrifying *S. putrefaciens*, 2613
Phytase
A. fumigatus, 1696
Phytopathogens
A. flavus invasion of cotton bolls, 3548
A. tumefaciens, 4578
bakanae disease of rice, 1838
C. michiganense subsp. *sepedonicus*, 2625
Clavibacter and *Rathayibacter* phylogeny, 2631
crown gall, 201
E. amylovora, 4604
E. amylovora strain differentiation, 4421
ethylene production, 156
G. fujikuroi, 1838
nested PCR for detection, 2625
P. fluorescens antagonism, 4340
P. syringae pv. syringae, 2771, 4304
pink disease of pineapple, 71
potato cyst nematode, 1357
pythium root rot, 162
Pythium spp., 2095
R. solanacearum, 4965
U. necator (Schw.) Burr., 2966
X. axonopodis pv. manihotis, 4427
xanthomonad DNA probe, 4462
Xanthomonas genomic variability, 246
Phytophthora spp.
PCR primers for ITS region 2, 1467
Phytoplankton
rbcL gene diversity, 3600
Phytoplankton cell cycle marker
proliferating cell nuclear antigen, 4010
Phytosphere-associated plasmids
impact on *P. fluorescens* fitness, 1584
Picoplankton
analyses with SYBR Green I, 186
phosphate stress detection, 2411
Pigments
novel melanogenic bacterium, 3499
production by *M. ruber*, 2671
Pine logs
pulp and paper production, 1995
Pineapples
pink disease, 71
Pink disease of pineapple
P. citrea gene, 71
Pisolithus tinctorius
ectomycorrhiza, 840
pJP4
2,4-D degradation pathway inducer, 317
PKS1
temporal transcriptional pattern, 351
Planctomycete bacteria
giant tiger prawns, 254
Planktonic *Archaea*
distribution in the marine ecosystem, 50
ether lipids, 3090
Planktonic bacteria
SAR11 cluster rRNA genes, 63
Plant cell walls
attack by *A. niger* esterase, 208
Plant compounds
PCB degradation, 1933
Plant proteins
expression in *N. crassa*, 3488
Plaque assay
coliphage detection, enumeration, 4564
Plasma membrane fatty acid unsaturation
S. cerevisiae lipid peroxidation, 2971
Plasmid profiling
V. tapetis intraspecific characterization, 1449
Plasmid transfer
earthworm-containing soil, 679
marine *Vibrio* strains, 749
Plasmids
arsenic resistance, 2089
arylsulfonate degradation, 2403
B. thuringiensis crystal protein production, 2792
biphenyl degradation, 3282
carbofuran mineralization, 1332
2,4-D degradation pathway inducer, 317
desulfurization by rhodococci, 2915
diversity in marine sediment bacteria, 888
F. oxysporum, 3311
group B streptococci, 3539
impact on *P. fluorescens* fitness, 1584
lactococcal phage resistance, 1244, 1274
marine environments, 4692
metal resistance, 4523
mobilization in field soil, 1980
P. putida starvation response, 1925
postsegregational stability, 1917
RSF1010 from *E. amylovora*, 4604
virulent *Y. enterocolitica* from pork, 1657
Y. enterocolitica virulence, 4952
Plastic composite supports
L-(+)-lactic acid biofilm fermentation, 2516, 2524, 2533
Pleurotus eryngii
laccase isoenzymes, 2166
Pleurotus florida
laccase and growth, 4120
Pleurotus ostreatus
phenanthrene degradation, 2495
RBBR decolorizing peroxidase, 1744
Plutella xylostella
Cry1Ac-binding protein, 1024
resistance to *B. thuringiensis*, 1814
resistance to Cry1C, 2218
pMRC01
lactococcal phage resistance, 1434
pnd
plasmid stability enhancement, 1917
pNP40
lactococcal phage resistance, 1244
Poikilotherms
intestinal bacteria and PUFAs, 2572
Point and nonpoint sources of *E. coli*
Apalachicola Bay, 2607
Poliovirus
importation into Canada, 519
inactivation, 978
interaction with biofilm, 978
sensitivity to glutaraldehyde, 3199
Poly(3-hydroxybutyrate)
production by *A. latus*, 3703
production by recombinant *E. coli*, 4765
Poly-(3-hydroxybutyrate-*co*-3-hydroxyvalerate)
production by *A. eutrophus*, 827
Poly-β-hydroxybutyrate
R. meliloti strains, 21
Polycarbonate membrane filters
bacterial microcolony formation, 2920
Polycentric anaerobic fungi
cellulases and xylanases, 628, 4721
Polychlorinated biphenyls
aerobic biodegradation, 3378
biodegradation, 1933, 3096, 3282
dechlorination, 4826
dehalogenation in sediments, 2836
dynamics of dechlorinators, 1771
Polycyclic aromatic hydrocarbons
anaerobic degradation, 3589
potential probe for degraders, 3286
Polygalacturonase
A. flavus invasion of cotton bolls, 3548
A. vitis, 338
Poly-γ-glutamic acid
production by *B. subtilis*, 4087
Polyhydroxyalkanoates
R. capsulatus, 3003, 3010
Polyhydroxybutyrate depolymerase
C. acidovorans, 4844
Polylactide degradation
Amycolatopsis sp., 1637
Polymorphic chromosomes
C. carbonum Tox2, 996
Polyphosphate metabolism
engineered in *E. coli*, 1689
Poly-*R*-3-hydroxybutyrate
symbiotic nitrogen fixation, 3432
Polysaccharide-producing bacteria
hyperhydricity control, 767
S. thermophilus, 3512
Polyunsaturated fatty acids
distribution in marine bacteria, 2572
pOM1
vector for butyrivibrios, 1701
Population dynamics
bacteria in a meromictic lake, 2181
oil field bacteria, 1785
PCB dechlorinators, 1771
Population structure
anaerobic aquifer bacteria, 1498
hot spring microbial mats, 1367, 1375
Pork
virulent *Y. enterocolitica*, 1657

Porphyromonas gingivalis
isolation of W50 fimbriae, 2318
Postlarval giant tiger prawn
planctomycete bacteria, 254
Potassium salts
Microcystis growth inhibition, 2324
Potato cyst nematode
biocontrol, 1357
Potato ring rot bacterium
nested PCR for detection, 2625
Potatoes
detection of *Phytophthora* spp., 1467
Poultry
C. jejuni, 1874
Powdery mildew
biocontrol, 2966
pQBR103
impact on *P. fluorescens* fitness, 1584
Prawns
planctomycete bacteria, 254
Predation
impact on biofilm architecture, 2432
marine vibrio plasmid transfer, 749
Presence-absence tests
limitations, 771
Pressure
barotolerant *E. coli*, 945
hyperthermophilic protease, 3985
Prevalence
B. burgdorferi sensu lato, 1102
Prevotella bryantii
glycogen biosynthesis, 4355
Prevotella ruminicola
glycogen formation, 1483
peptidase mutants, 670
Prevotella spp.
glutamate dehydrogenase, 3314
Pristane
anaerobic degradation, 2077
Pristine environments
oligotrophic 2,4-D degraders, 2266
Prochlorophytes
anoxygenic photosynthesis, 3507
Prochlorothrix hollandica
anoxygenic photosynthesis, 3507
Prolidase
L. casei subsp. *casei*, 314
Proliferating cell nuclear antigen
T. chui, 4010
Promoterless reporter genes
N. lactamdurans, 2977
Pseudoalteromonas sp. strain S9, 2989
Propane-oxidizing bacteria
gasoline oxygenate degradation, 4216
Protamine-induced permeabilization
bacterial cell envelopes, 1155
Proteasomes
P. furiosus, 1160
Protein engineering
S. lividans mTNF production, 1808
starch-utilizing yeast, 1362
Protein production
A. awamori and glucoamylase, 488
plant proteins, by *N. crassa*, 3488
Proteinases
B. linens, 2468
Proteins
α-galactosidase immobilization, 615
secretion by *S. hyicus*, 2814
Proteobacteria
analysis of ammonia oxidizers, 1489
echinoderms, 1721
extracellular marine symbionts, 1721
novel δ-subdivision lineage, 1441
numerical dominance in seawater, 4237
Protistan grazing
bacterial community composition, 587, 596
Protoanemonin
survival of 4-chlorobiphenyl degraders, 427
Protozoan feeding modes
bacterial community composition, 587, 596
pruA
A. bisporus, 57
Pseudomonas aeruginosa
L-arogenate catabolism, 567
attenuated strain AC869, 1389
cadmium removal, 4075
chitinase/lysozyme, 380
Pseudomonas aeruginosa-like strains
water bottling plant, 851
Pseudomonas butanovora
chloroform cometabolism, 3607
Pseudomonas fluorescens
antagonism towards *P. debaryanum*, 4340
barley rhizosphere, 4920
Douglas fir-*L. bicolor* symbiosis, 139
genetic modification and release, 1965
impact of pQBR103 on fitness, 1584
iron availability in soil, 99
iron stress and pyoverdin production, 277
manganese oxidation, 4793
moc gene tag system, 602
nonculturable cells in soil, 3776
pyrrolnitrin synthesis, 2147
signaling with *P. ultimum*, 4261
spatial patterns, 3211
styrene catabolism, 2232
Pseudomonas maltophilia
herbicide demethylation, 1623
Pseudomonas pseudoalcaligenes
nitrobenzene degradation, 4839
TNT transformation, 2007
Pseudomonas putida
chlorotoluene metabolism, 1965
cti cloning, sequence, 4292
survival in field soil, 1980
Pseudomonas putida mt-2
toluene elicits starvation response, 1925
Pseudomonas solanacearum
differential virulence, motility, 844
Pseudomonas spp.
antibiotic production, 881
atrazine degradation gene, 916
chemotaxis to naphthalene, 4111
interactions with parasitic nematode, 1357
marker, 4543
naphthalene dioxygenase, 2067
petroleum hydrocarbon degradation, 3719
phenol degradation, 4899
Pseudomonas stutzeri
growth on xylenes, 3279
Pseudomonas syringae
ethylene production, 156
rrn RFLP analysis, 498
sequence-based comparison, 282
Pseudomonas syringae pv. syringae
lemA and field fitness, 4304
syringomycin synthesis, 2771
syrP gene analysis, 2771
Pseudomonas syringae pv. tomato
rrn RFLP analysis, 498
Pseudo-nitzschia spp.
stable pre-RNA detection, 4859
Psychrophilic bacteria
alkaline phosphatases, 2928
Antarctic sea ice, 3068
relationship to barophiles, 2105
TCE biodegradation, 3866
Psychrotrophic bacteria
B. cereus in beef gravy, 1953
inhibition by bacteriocins, 2074
petroleum hydrocarbon degradation, 3719
ptsHI and *ptsI*
L. sake, 2111, 2117
Pullulanase
F. pennavorans, 1088
Pulp and paper production
chlorinated dehydroabietic acid metabolism, 3014
K. lactis xylanase, 3297
P. gigantea, 1995
Pulsed-field gel electrophoresis
E. amylovora strains, 4421
V. tapetis intraspecific characterization, 1449
Purple nonsulfur bacteria
halocarboxylic acid dehalogenation, 3333
pWW0
P. putida starvation response, 1925
Pyoverdin
production by *P. fluorescens*, 277
Pyrene
degradation by fungi, 3919
transformation by *A. niger*, 2906
Pyridine
biodegradation, 2578
Pyrococcus abyssi
barophilic behavior, 1230
responses to stress, 1230
Pyrococcus furiosus
amylopullulanase gene, 3577
extracellular α-amylase gene, 3569
intracellular protease PfpI, 289
proteasome, 1160
Pyrococcus spp.
chaperonin, 785
DNA polymerase, 4504
recombinant glutamine synthetase, 2472
δ^1-Pyrroline-5-carboxylate dehydrogenase
A. bisporus pruA gene, 57
Pyrrolnitrin
synthesis by *P. fluorescens*, 2147
Pyrroloquinoline quinone
tetrahydrofurfuryl alcohol degradation, 4891
Pyruvate decarboxylase
S. cerevisiae and glucose excess, 3399
Pythium debaryanum
P. fluorescens antagonism, 4340
Pythium root rot
energy availability, 162
sustained biocontrol, 162
Pythium ultimum
interaction with *T. harzianum*, 2095
signaling with *P. fluorescens*, 4261

Q fever
C. burnetii detection in milk, 2142
Quantitative analysis
uncultured microorganisms, 1028

Radioactive protein A-based assay
surface protein expression, 2477
Radioactive wastes
limited potential for transport, 3128
Ralstonia eutropha
3-nitrophenol catabolism, 1421

tetrahydrofurfuryl alcohol degradation, 4891
Ralstonia solanacearum
differential virulence, motility, 844
natural transformation, 4965
Randomly amplified polymorphic DNA PCR
strain-specific differentiation of lactococci, 2702
V. vulnificus characterization, 1674
Rat tongues
nitrate-reducing bacteria, 924
Rathayibacter spp.
phylogeny and classification, 2631
rbcL
diversity in phytoplankton, 3600
16S rDNA
crenarchaeota in lake sediment, 321
diversity of bacteria in a Carolina bay, 1505
Methylobacterium sp. identification, 1594
18S rDNA
fungus detection in grass roots, 3858
28S rDNA
Fusarium phylogeny, 1843
rDNA internal transcribed spacers
ectomycorrhizas, 840
recA'::lux reporter plasmids
DNA damage detection, 2566
Recombinant *E. coli*
PHB production, 4765
Recombinant enzymes
M. thermophila laccase, 3151
Pyrococcus α-amylase, 3569
Pyrococcus amylopullulanase, 3577
Pyrococcus glutamine synthetase, 2472
S. cerevisiae CFTase, 4956
Recombinant human hemoglobin
yield improvement, 4313
Recombinant luminescent bacteria
measurement of bioavailable oxyanions, 4456
Recombinant, *XYL1*-expressing *S. cerevisiae*
xylose conversion, 1959
Recombinase-mediated systems
gene marker elimination, 779
Red pigments
production by *M. ruber*, 2671
Red smear cheese
Listeria inhibition, 4812
Redox mediators
azo dye reduction, 3684, 3691
Reduced sulfur compounds
use by *Beggiatoa* spp., 3957
Reduced sulfur species
oxidation by *A. oxaliferum*, 1905
Reductive acetogenesis
stimulation in the rumen, 194
Reductive dechlorination
3-chlorobenzoate, 4698
1,2-dichloropropane, 2870
polychlorinated biphenyls, 4826
2,3,4,6-tetrachlorobiphenyl, 2836
Reductive dehalogenation
3-chlorobenzoate, 2785
D. tiedjei, 3594
halocarboxylic acids, 3333
vinyl chloride, 4139
Relatedness
STEC strains in cattle and sheep, 2175
Remazol brilliant blue R
decolorization by *P. ostreatus*, 1744
Renibacterium salmoninarum
extracellular products, 3770
Repeated-batch biofilm fermentation
lactic acid production, 2533
Reporter gene activity
genetically modified *P. fluorescens*, 1965
lux-tagged fluorescent pseudomonads, 4920
N. lactamdurans, 2977
Reporter polypeptides
subtilin function studies, 3965
Resin acids
bacterial metabolism, 3014
Respiration-coupled proton translocation
A. pasteurianus growth energetics, 3345
Respiratory activity
aquatic bacteria, 867
Restriction fragment length polymorphism assay
microbial diversity characterization, 4516
rotaviruses in sewage, 1794
Reticulitermes flavipes (Kollar)
hydrogen gradients in gut, 4039
Retting fungi
isolation and identification, 3950
Reverse sample genome probing
oil field bacteria, 1785
Reverse transcriptase seminested PCR
rotaviruses in sewage, 1794
Reverse transcription
genetic diversity assessment, 4907
Reverse transcription-PCR
L. monocytogenes, 4441
Rhamnogalacturonan hydrolases
A. niger, 2507
Rhamnolipid
effects on cell aggregation, 3622
hexadecane degradation, 3622
Rhamnolipid biosurfactant
bacterial transport through soil, 1866
α-L-Rhamnose
pectin gene expression induction, 2287
Rhizobacteria
environmental fate, 1617
Rhizobia
genetic diversity, 4748
Rhizobium leguminosarum bv. trifolii
root colonization, 2038
Rhizobium meliloti
exopolysaccharide, 21
phosphate stress response, 4978
poly-β-hydroxybutyrate, 21
Rhizobium spp.
acetyl-CoA acetyltransferase, 3432
atrazine dechlorination, 862
Rhizopus oligosporus
spore germination inhibitor, 178
Rhizosphere
B. cepacia biodiversity, 4485
chromosomal gene transfer, 213
CO_2 increases denitrifier activity, 4621
2,4-diacetylphloroglucinol, 951
fluorescent pseudomonads, 213, 277
iron availability to *P. fluorescens*, 99
lux-tagged fluorescent pseudomonads, 4920
methane oxidation, 3051
seasonal abundance of SRB, 3895
Rhodobacter capsulatus
polyester production, 3003, 3010
Rhodobacter sphaeroides
tellurite resistance, 4713
Rhodococci
desulfurization genes, plasmids, 2915
Rhodococcus erythropolis
bphC genes are on a plasmid, 3282
chiral hydroxamate formation, 3390
nonheme haloperoxidase, 1911
Rhodococcus fascians
limonoate dehydrogenase, 3385
Rhodococcus spp.
heroin esterase, 2062
naphthalene metabolism, 151
Rhodopseudomonas spp.
halocarboxylic acid dehalogenation, 3333
Rhodospirillum spp.
halocarboxylic acid dehalogenation, 3333
Rhodosporidium toruloides
cephalosporin esterase, 4807
Ribosomal DNA
karyotypic variability in colpodid ciliates, 1602
Ribotyping
C. perfringens, 3992
F. necrophorum isolates, 4671
S. alga differentiation from *S. putrefaciens*, 2189
V. damsela in Danish fish, 3711
V. tapetis intraspecific characterization, 1449
V. vulnificus biotypes, 2600
V. vulnificus characterization, 1674
Ribulose bisphosphate carboxylase/oxygenase form I
gene diversity in phytoplankton, 3600
Rice
mycotoxins, 1838
Rice borers
B. thuringiensis δ-endotoxin binding, 1453
Rice fields
methane-oxidizing bacteria, 1199
microbial communities, 233
Rice paddy soil
anaerobic ultramicrobacteria, 1382
Riftia pachyptila
symbiont histidine protein kinase homolog, 3494
Rivers
nitrite accumulation, 4679
RK2 replicon
broad-host-range cloning vectors, 370
RNA polymerase gene sequences
Synechococcus diversity, 4298
Rock phosphate
arbuscular mycorrhiza development, 4408
Root-colonizing bacteria
aquatic macrophytes, 3051
chromosomal gene transfer, 213
methane oxidation, 3051
R. leguminosarum bv. trifolii, 2038
Rotaviruses
characterization in sewage, 1794
rpoC1
Synechococcus diversity, 4298
rrn RFLP analysis
P. syringae, 498
16S rRNA
classification of oxyphotobacteria, 2593
probes for Fe and Mn oxidizers, 644
quantification of uncultured microorganisms, 1028
S. alga differentiation from *S. putrefaciens*, 2189

16S rRNA gene analysis
Clavibacter and *Rathayibacter* phylogeny, 2631
diversity of bacteria in a Carolina bay, 1505
microbial diversity characterization, 4516
rRNA gene restriction patterns
lactic acid bacterium detection, 448
16S rRNA gene sequences
bacterial diversity in lakes, 2957
rRNA genes
marine planktonic bacteria, 63
16S rRNA genes
PCR coampification and chimera formation, 4645
PCR primers for cyanobacteria, 3327
solemyid clam symbiont, 91
16S rRNA hybridization probes
B. fibrisolvens in the rumen, 1256
16S-23S rRNA intergenic spacer sequences
P. syringae pathovars, 282
16S rRNA probes
active marine bacterioplankton, 1208
drinking water biofilms, 4164
16S rRNA in situ hybridization
boosting probe detection, 2735
16S rRNA-targeted probes
Bifidobacterium spp., 1268
thermophilic bacteria, 4061
RTX toxin genes
detection in gram-negative bacteria, 2258
Ruminal microorganisms
acid tolerance, 2155
ammonia production, 670
B. fibrisolvens, 394, 1256, 3405
bacteriocins, 394
community structure studies, 1256
competition for cellobiose, 734
competition for cellulose, 734
ecological studies, 1143
F. succinogenes, 2449
glucose transport, 1847
glycogen formation, 1483
H^+-ATPase activity, 2155
molecular beacons, 1143
organic acid utilization, 4853
Prevotella glutamate dehydrogenase, 3314
reductive acetogenesis, 194
ribotyping for comparison, 4671
16S rRNA hybridization probes, 1256

Saccharomyces cerevisiae
ATF1 gene regulation, 910
branched-chain ADH, 4079
endocytosis of the maltose transporter, 3831
freeze-thaw stress response, 3818
α-galactosidase immobilization, 615
glycerol-3-phosphate mutants, 128
glycerol synthesis in hyperosmotic media, 145
3-hydroxy-3-methylglutaryl coenzyme A reductase overproduction, 3341
lysine overproduction, 4800
metal-induced lipid peroxidation, 2971
recombinant thermostable CFTase, 4956
response to glucose excess, 3399
silencing of *MIG1*, 2366
squalene synthesis, 3341
thiram and dimethyldithiocarbamic acid interconversion, 2857
xylose conversion, 1959
Saccharomyces flor yeasts
mitochondrial DNA loss, 7
Salicylhydroxamic acid-sensitive pathway
S. castellii glucose metabolism, 2779
Salinity
bdellovibrio colonization, 84
mercury bioavailability, 4267
Salmon intestinal mucus
V. anguillarum, 1034
Salmonella abortusovis
identification by PCR, 2082
Salmonella enterica serovar enteritidis
contaminated eggs, 1588
Salmonella enteritidis
substratum topography influence, 3352
trisodium phosphate resistance, 3352
whole-cell fatty acids, 757
Salmonella strains
detection in foods, 775
Salmonella typhimurium
in situ PCR, 4196
infection modulation by *L. casei*, 513
O-antigen-specific MAbs (letter), 1192
sensitization to HOCl, 461
Salt
effects on killer yeasts, 1165
food spoilage mold growth, 3764
halotolerant *D. hansenii*, 4005
Salt marshes
diversity of *Archaea*, 4729
sulfate-reducing bacteria, 3895
Salt stress
glycine betaine accumulation, 4657
L. lactis, 1826
S. meliloti, 4657
Sanitizers
S. typhimurium elimination from food, 461
Santa Barbara Channel
marine *Archaea*, 50
SAR11 cluster of planktonic bacteria
diversity in rRNA genes, 63
*Sau*3AI restriction
modification in *L. monocytogenes*, 3085
SCD1
temporal transcriptional pattern, 351
Schwanniomyces castellii
glucose metabolism, 2779
Sea ice
psychrophilic bacteria, 3068
Seasonal changes in abundance
sulfate-reducing bacteria, 3895
Seasonality
antarctic airborne fungal spores, 2232
fen bacterial communities, 3111
Seawater
bacterial diversity, 983
numerically dominant α-proteobacteria, 4237
sec-dependent bacteriocins
enterocin P, 4321
Secretion vectors
yogurt starter cultures, 4593
Sediment
alkane and PAH degradation, 3589
Archaea in salt marshes, 4729
Aroclor 1260 dechlorination, 4818
bacterial communities of fens, 3111
bacterial PLFA profiles, 1531
crenarchaeotal rDNA, 321
dynamics of PCB dechlorinators, 1771
mer subclass analysis, 4914
PCB dehalogenation, 2836
plasmid diversity in bacteria, 888
reduced sulfur species oxidation, 1905
river nitrite accumulation, 4679
volatile organic sulfur compounds, 4741
Selenium
agricultural drainage water, 3079
Selenomonas ruminantium
organic acid utilization, 4853
Seminested PCR
detection of *Legionella* spp., 2489
Separation of bacterial cells
microbial community analysis, 3176
Serovars
V. vulnificus, 1460
Sesbania rostrata
stem nodulation by root symbionts, 1040
Sewage
enteric virus detection, 4401
rotaviruses, 1794
Sf9 cells
calcium ion-CryIC toxin interaction, 440
Shear stress
E. coli metabolite production, 4090
Sheep
E. coli O157:H7 shedding, 3878
Shiga toxin-producing *E. coli*, 2175
Shellfish
toxin production by bacteria, 239
Shewanella alga
adhesion to amorphous Fe(III) oxide, 3837
differentiation from *S. putrefaciens*, 2189
Shewanella colwelliana
biofilm toxicity to oysters, 4107
Shewanella putrefaciens
denitrification, 2613
differentiation from *S. alga*, 2189
Shiga toxin-producing *E. coli*
epidemiology in cattle and sheep, 2175
Shuttle vectors
H. pylori, 4866
Sialidase-producing bacteria
GM1 ganglioside mass production, 1861
Sick building syndrome
aerosolized gram-negative bacteria, 3585
Signaling
P. ultimum and *P. fluorescens*, 4261
Silage
Listeria spp. and pH, 3695
Silicone rubber
Candida adhesion inhibition, 3810
Silicone-immobilized bacteria
microcolony formation, 2920
Simulated microgravity
E. coli metabolite production, 4090
Single-cell-level detection
in situ reverse transcription, 4907
Single-crossover integration
L. sake chromosome, 2117
Sinorhizobium meliloti
salt stress, 4657
Sinorhizobium saheli
Sesbania stem nodulation, 1040
Sinorhizobium teranga bv. sesbaniae
Sesbania stem nodulation, 1040
Slide latex agglutination test
enterotoxigenic *C. perfringens*, 4232
Small-subunit rDNA
microbial diversity in anaerobic digestors, 2802
Small-subunit rRNA
probes for activated sludge systems, 1107
probes for bryozoan symbionts, 4612
probes for marine nanoflagellates, 938

Small-subunit rRNA gene clones
bacterioplankton diversity, 983
Small-subunit rRNA primers and probes
A. tolulyticus detection, 2384
Sodium chloride
B. stearothermophilus growth, 1237
sensitive *S. aureus*, 1889
Soil
A. calcoaceticus transformation, 1945
arbuscular mycorrhiza development, 4408
bacterial transport, 1866
[^{14}C]benzo[*a*]pyrene degradation, 4511
biomass carbon measurement, 39
2,4-diacetylphloroglucinol, 951
diesel oil biodegradation, 2660
diverse uncultivated bacterial groups, 3614
flavonoids, 4573
heavy metal pollution, 39
iron availability to *P. fluorescens*, 99
mer subclass analysis, 4914
methyl bromide oxidation, 4346
microbial diversity in Amazonia, 2647
nitrogen cycling, 4015
nitrogen transformations in wetlands, 3648
nonculturable *P. fluorescens* CHA0, 3776
nucleosides, 4573
P. putida survival, 1980
phosphorus effects on AM fungi, 3531
pythium root rot, 162
streptomycin producer detection, 1288
substrate utilization patterns, 39
TNT metabolite coupling, 2560
Soil bacteria
atmospheric methane metabolism, 874
biphenyl and PCB degradation, 3378
deoxynivalenol detoxification, 3825
induced natural transformation, 3972
novel crenarchaeotal group, 803
Solar radiation
bacterioplankton inhibition, 4178
Solemyid clams
bacterial symbiont diversity, 91
Soluble methane monooxygenase gene cluster
Methylocystis sp. strain M, 1898
Soluble recombinant hemoglobin
yield improvement, 4313
Solvent tolerance
E. coli K-12, 3637
E. coli overexpressing *marA*, 1428
L-Sorbose dehydrogenase
gene cloning, 454
L-Sorbosone dehydrogenase
gene cloning, 454
SOS *lux* assay
biosensor for genotoxins, 4377
Southern pine beetle
fungal symbionts, 621
sox
desulfurization by rhodococci, 2915
Sparsely fimbriated *P. gingivalis*
isolation of W50 fimbriae, 2318
Spartina alterniflora
seasonal abundance of SRB, 3895
Spatial patterns
P. fluorescens, 3211
Species-specific flagellate probes
flow cytometry, 938
Specific gene expression
visualization, 4196
Sphingomonas (*Flavobacterium*) *chlorophenolica*
PCP degradation, 4833
Sphingomonas paucimobilis
haloalkane dehalogenase, 3707
Sphingomonas spp.
azo dye reduction, 3684, 3691
carbofuran mineralization, 1332
4-chlorodibenzofuran mineralization, 3458
Spodoptera exigua
biocontrol, 3025
Spodoptera frugiperda
calcium ion-CryIC toxin interaction, 440
Sporangiospores
germination inhibitor, 178
Spore germination
R. oligosporus, 178
Spores
antarctic airborne fungal spores, 2232
B. coagulans, 2246
C. bifermentans, 2100
detection with MAbs, 482
immunomagnetic detection, 1643
inactivation, 1598
nisin-resistant *C. botulinum*, 2654
Sporicidal tests
liquid chemical germicides, 3304
Sporulation
B. thuringiensis crystal protein production, 2792
Spruce budworm
Cry9Ca1 toxicity, 4132
Squalene synthesis
S. cerevisiae, 3341
Stable pre-RNA
toxigenic *Pseudo-nitzschia* spp., 4859
Stainless steel
ennoblement by *L. discophora*, 2502
Staphylococcal bacteriocins
BacR1, 4185
Staphylococcal food poisoning
NaCl-sensitive *S. aureus*, 1889
Staphylococcus aureus
enterotoxin A activity, 2361
NaCl-sensitive mutants, 1889
Staphylococcus carnosus
cholera toxin B subunit surface display, 2481
Staphylococcus hyicus
protein secretion, 2814
Staphylococcus xylosus
cholera toxin B subunit surface display, 2481
Starch-utilizing yeasts
cell surface engineering, 1362
Starvation response
ammonia oxidizers in biofilms, 2281
D. aquamarina, 2686
P. putida mt-2 and toluene, 1925
Stem and root nodulation
Sesbania spp., 1040
Sterol biosynthesis inhibitor
resistant *U. necator*, 2966
sto-positive vibrios
central Italy, 2934
Strain T1
toluene metabolism genes, 652
Strain-specific differentiation
lactococci, 2702
Strain-specific DNA probes
novel means for development, 2863
Strength and lean mass gain
hydroxymethylbutyric acid, 4191
Streptococcus bovis
α-amylase, 4941
β-(1,3-1,4)-glucanase gene, 3752
secretion vector for yogurt starters, 4593
Streptococcus gordonii
GTF carboxy-terminal repeats, 1667
Streptococcus thermophilus
Candida adhesion inhibition, 3810
cheese factory bacteriophages, 3144
exocellular polysaccharides, 3512
phage classification, 3246
superoxide dismutase, 3732
Streptococcus zooepidemicus
hyaluronic acid, 2759
Streptomyces cinnamomeus
new extracellular lipase, 3553
Streptomyces coelicolor
ATP-dependent phosphofructokinase, 956
Streptomyces halstedii
xysA gene analysis, 2983
Streptomyces lividans
secretory production of mTNF, 1808
Streptomyces pactum
growth on chicken feathers, 790
Streptomyces thermoviolaceus
acetyl xylan esterase genes, 661
xylanase genes, 661
Streptomycin-producing streptomycetes
detection in soil, 1288
Stressed microorganisms
biofilm formation, 3158
E. coli and HOCl, 4204
E. coli metabolite production, 4090
E. faecalis and alkaline shock response, 812
genetically modified *P. fluorescens*, 1965
glycine betaine accumulation, 4657
L. lactis acid tolerance, 4210
L. monocytogenes, 1252
M. sedula, 2391
P. abyssi, 1230
photosynthetic picoplankton, 2411
R. meliloti, 4978
S. cerevisiae and heavy metals, 2971
S. cerevisiae response, 3818
S. meliloti, 4657
Styrene catabolism
Corynebacterium strain ST-10, 3783
gene sequencing, analysis, 2232
P. fluorescens, 2232
Styrene monooxygenase
indigo formation, 4287
Subcuticular bacterial symbionts
brittle star, 1721
Substrate uptake
microautoradiography, 3662
Substrate utilization patterns
heavy metal-amended soil, 39
Substrates
bdellovibrio colonization, 84
Substratum topography
biofilm resistance to trisodium phosphate, 3352
Subtilin
posttranslational modification and secretion, 3965
Subtilin function studies
alkaline phosphatase as reporter polypeptide, 3965
Subtilisin inhibitor gene
S. lividans mTNF production, 1808
Succession
aerobic biofilm communities, 270

Succinate
effect on benzoate degradation, 2765
Succinic acid formation
malic enzyme overexpression, 2695
Sucrose
effect on *A. niger* cAMP level, 2844
Sugar beet phytosphere
in situ gene transfer to GMMs, 1577
Sugars
xylose conversion by recombinant *S. cerevisiae*, 1959
Suicide systems
lactococci, 4370
Sulfate
3-chlorobenzoate dehalogenation, 2785
Sulfate reduction activity
m-cresol degradation, 3170
estimation, 1627
Sulfate-reducing bacteria
anaerobic toluene activation, 3729
hydrogenase gene diversity, 4360
seasonal changes in abundance, 3895
uranium reduction, 4385
Sulfide-rich anoxic conditions
photosynthesis by *P. hollandica*, 3507
Sulfidogenic consortia
PAH degradation, 4759
Sulfite
ethanol fermentation, 1
Sulfonate reduction
B. wadsworthia growth, 2016
Sulfur adhesion
T. thiooxidans, 2058
Sulfur emission through combustion
biodesulfurization, 3164
Sulfur oxyanions
reductive dehalogenation by *D. tiedjei*, 3594
Sulfur production
thiobacilli, 2300
Superoxide dismutase
S. thermophilus, 3732
Supply-side analysis
B. subtilis growth on glucose-citrate, 710
Surface antigen expression
L. monocytogenes DNA probes, 1077
Surface display
cholera toxin B subunit, staphylococci, 2481
Surface protein expression
assay, 2477
Surfaces
colonization by bdellovibrios, 84
Surfactin
antimycoplasma properties, 44
Survival
astroviruses in drinking water, 3119
B. cereus in beef gravy, 1953
chemical-exposed *E. coli*, 4083
freeze-thaw stress, 3818
L. monocytogenes mutant, 4945
P. putida in field soil, 1980
SYBR Green I
picoplankton analyses, 186
Symbiosis
aphids and *Buchnera* spp., 3294
arbuscular mycorrhizae and plants, 4408
bacteria and solemyid clams, 91
bryozoans and bacteria, 4612
cyanobacteria and plants, 4479
Douglas fir-*Laccaria bicolor*, 139
echinoderms and bacteria, 1721
entomopathogenic nematodes and bacteria, 2826
fungi and beetles, 621
hydrothermal vent annelids, 1124, 3494
R. pachyptila, 3494
rhizobia and legumes, 4748
Sesbania spp. and rhizobia, 1040
Synechococcus spp.
diversity, 4298
light-induced motility, 2347
Syringomycin synthesis
P. syringae pv. syringae, 2771
syrP
analysis in *P. syringae* pv. syringae, 2771
SYTO-13
dye for *E. coli*, marine prokaryotes, 4608
SYTOX Green nucleic acid stain
bacterial viability testing, 2421

Taurine reduction
B. wadsworthia growth, 2016
Taurine sulfur assimilation
anaerobic bacteria, 3021
Taurine-pyruvate aminotransferase activity
anaerobic bacteria, 3021
Tellurite resistance
R. sphaeroides, 4713
Temperature
A. flavus mycotoxin coproduction, 1048
Aroclor 1260 dechlorination, 4818
B. stearothermophilus growth, 1237
bdellovibrio colonization, 84
control of *B. cereus* in beef gravy, 1953
food spoilage mold growth, 3764
L. monocytogenes growth in the cold, 3887
PCB dehalogenation, 2836
recombinant hemoglobin production, 4313
V. vulnificus thermal-death times, 3308
Temperature-sensitive pWV01 plasmids
group B streptococci, 3539
Temporal transcriptional pattern
melanin biosynthesis genes, 351
Terminal restriction fragment length polymorphisms
microbial diversity characterization, 4516
Termites
biphenyl-degrading bacteria, 3282
hydrogen gradients in gut, 4039
2,3,4,6-Tetrachlorobiphenyl
Aroclor 1260 dechlorination, 4818
dechlorination, 4826
reductive dechlorination, 2836
Tetracycline residues in milk
E. coli β-galactosidase synthesis, 4116
Tetracycline resistance element
transfer in *B. fibrisolvens*, 3405
1,2,3,4-Tetrahydrodibenzothiophene
bacterial transformation, 3032
Tetrahydrofurfuryl alcohol
degradation by *R. eutropha*, 4891
Tetraselmis chui
proliferating cell nuclear antigen, 4010
Tetrazolium reduction
respiratory activity of aquatic bacteria, 867
Thermal-death times
V. vulnificus, 3308
Thermoanaerobacter brockii
β-glucosidases, 3902
Thermoanaerobacter ethanolicus
coculture with *C. thermocellum* JW20, 2949

Thermophiles
ammonia oxidation, 474
F. pennavorans, 1088
hydrothermal vents, 2876, 4061
16S rRNA-targeted probes, 4061
Synechococcus isolates, 2347
thermostable pullulanase, 1088
Thermostable enzymes
K. lactis xylanase, 3297
mannosylglycerate for stabilization, 4020
P. furiosus, 3569, 3577
pressure-enhanced activity, 3985
Pyrococcus DNA polymerase, 4504
S. cerevisiae CFTase, 4956
T. neapolitana, 169
Thermostable penicillin G acylase
gene cloning and analysis, 3412
Thermostable pullulanase
F. pennavorans, 1088
Thermotoga maritima
di-*myo*-inositol-1,1′-phosphate, 338
Thermotoga neapolitana
β-galactosidase uptake, hydrolysis, 969
thermostable enzymes, 169
Thermotolerance
L. monocytogenes, 3225
M. sedula, 2391
Thiobacillus ferrooxidans
novel design for growth study, 2586
Thiobacillus spp.
sulfur production, 2300
Thiobacillus thiooxidans
hydrophobicity, 2058
sulfur adhesion, 2058
Thiobacillus thioparus
competition for DMS and H_2S, 3318
distribution in groundwater, 3123
Thiocarbamate herbicides
biodegradation, 1911
Thiomicrospira spp.
habitat range, 3789
species diversity, 3789
Thiram
interconversion with dimethyldithiocarbamic acid, 2857
THR1
temporal transcriptional pattern, 351
Thymidine and leucine incorporation
bacterioplankton and solar radiation, 4178
Ticks
B. burgdorferi sensu lato, 1102
endosymbionts, 3926, 3933
Tn*917* mutagenesis
group B streptococci, 3539
TOL plasmids
P. putida starvation response, 1925
Toluene
biodegradation, 4047
P. putida starvation response, 1925
soil nitrogen cycling, 4015
TCE cometabolism, 1515, 1523
Toluene 2-monooxygenase
B. cepacia growth on diethyl ether, 1606
Toluene dioxygenase
chlorotoluene metabolism, 1965
Toluene metabolism
strain T1 regulatory genes, 652
Toluene monooxygenases
cross-regulation, 3736
Toluene sulfonate
biodegradation, 2403
Toluene-degrading bacteria
A. tolulyticus detection, 2384

in situ analysis, 2136
Tomatoes
xanthomonad DNA probe, 4462
TOTO-1
dye for *E. coli*, marine prokaryotes, 4608
Tox2 chromosomes
C. carbonum, 996
Toxins
freshwater cyanobacteria, 3104
microbial utilization, 3561
sodium channel-blocking toxins, 239
tributyl tin and oysters, 4107
water-damaged building materials, 387
TP901-1
phage biology studies, 2439
Trace gases
composting, 1011
Trametes versicolor
laccase gene transcription, 3444
Transcriptional analysis
p-coumarate decarboxylase gene, 1939
T. versicolor laccase gene, 3444
Transducing phage
B. subtilis (*natto*), 4087
Transformation
chlorinated ethenes, 687, 4961
dibenzothiophene, 3032
group B streptococci, 3539
naphthothiophene, 3463
phenanthrene, 2906
pyrene, 2906
1,2,3,4-tetrahydrodibenzothiophene, 3032
2,4,6-trinitrotoluene, 2007
Transgenic *Anabaena* strain
mosquito larvicidal activity, 4971
Transgenic marker
environmental fate of a rhizobacterium, 1617
Transport mechanisms
bacteria through soil, 1866
di- and tripeptides in *L. helveticus*, 2213
fluorochrome effect, 3941
glycine betaine in *M. thermophila*, 2252
ruminal bacteria and glucose, 1847
subtilin, 3965
sugar in *Z. mobilis*, 3519
yeast amd maltose, 3831
Trehalose
P. fluorescens-P. debaryanum interaction, 4340
Tri11
F. sporotrichioides mutant, 1685
Triadimenol resistance
U. necator, 2966
Tributyl tin toxicity
oyster larvae, 4107
1,2,4-Trichlorobenzene-dechlorinating consortium
enrichment and properties, 1225
2,4,6-Trichlorobiphenyl
dechlorination, 4826
Trichloroethene
cometabolism and microbial succession, 1515, 1523
Trichloroethylene
biodegradation in groundwater, 3866
oxidation by *Methylobacter* strain, 4617
soil nitrogen cycling, 4015
Trichloroethylene-degrading methanotrophs
sMMO gene cluster, 1898
2,4,6-Trichlorophenol
biodegradation, 4145
Trichoderma harzianum
biochemical characterization, 3189
interaction with *P. ultimum*, 2095
Trichoderma reesei
barley endopeptidase B, 4938
cellulase gene expression, 1298
gene expression, protein secretion, 4929
Trichothecene-producing *Fusarium* strains
rDNA-based phylogeny, 1843
Trichothecenes
bacterial detoxification, 3825
deoxynivalenol, 3825
F. sporotrichioides Tri11^{-} mutant, 1685
Trimethylbenzene isomers
biodegradation, 1171
6,10,14-Trimethylpentadecan-2-one
bacterial metabolism, 636
2,4,6-Trinitrotoluene
coupling of metabolites to soil, 2560
transformation, 2007
Tripeptidase
P. pentosaceus, 4872
Trisodium phosphate
resistant biofilms, 3352
Tryptophan
lignin peroxidase stabilization, 2543
Two-dimensional SDS-PAGE
L. monocytogenes acid tolerance response, 2679
Tyramide signal amplification
detection of bacteria, 3268, 3274
Tyrosine
interference in LiP assay, 3301

UDP-glucose
glycogen biosynthesis, 4355
Ulcerative disease
M. ulcerans detection, 4135
Ultramicrobacteria
rice paddy soil, 1382
Uncinula necator
triadimenol resistance mutation, 2966
Uncultured microorganisms
diversity in soils, 3614
quantification, 1028
Unsaturated fatty acids
cis-trans isomerization, 4292
S. cerevisiae ATF1 gene regulation, 910
Upflow anaerobic sludge blanket reactors
methanogenic granules, 403
Uptake mechanisms
microautoradiography for study, 3662
Uranium
reduction by bacteria, 4385
Urea
production by *E. coli* K-12, 33
UV damage
bacterioplankton recovery, 4026
marine virus communities, 2200
UV damage repair enzymes
chlorella virus PBCV-1, 1551
uvrA'::lux reporter plasmids
DNA damage detection, 2566

Vaccines
whooping cough (pertussis), 122
Vacuole labeling
yeasts, 2897
Vacuum packaging
lactic acid bacterium contamination, 448
VAM fungi
intrasporal genetic variation, 676
Vanillyl-alcohol oxidase
induction in *P. simplicissimum*, 435
Variable-number tandem repeats
B. anthracis, 1400
Vectors
butyrivibrios, 1701
H. pylori, 4866
L. monocytogenes Scott A, 3480
yogurt starter cultures, 4593
Vegetative insecticidal proteins
Vip3A, 532
ver-1
aflatoxin biosynthesis, 1058
Verocytotoxin-producing *E. coli*
virulence factors, 4585
Verotoxigenic *E. coli*
whole-cell fatty acids, 757
Verrucomicrobiales lineage
rice paddy soil bacteria, 1382
Viability
aerosolized gram-negative bacteria, 3585
FUN-1 fluorescent probes, 2897
M. trichosporium, 4961
SYTOX Green nucleic acid stain, 2421
Viable but nonculturable state
L. pneumophila, 2047
P. fluorescens CHA0 in soil, 3776
V. vulnificus nucleic acids, 2754
V. vulnificus resuscitation, 1002
Vibrio anguillarum
salmon intestinal mucus, 1034
Vibrio cholerae non-O1
biotyping of Italian isolates, 4102
heat-stable enterotoxin gene carriers in Italy, 2934
Vibrio cholerae O1 and O139
effect of alum, 3323
Vibrio damsela
diseased fish in Denmark, 3711
Vibrio harveyi
chitin degradation, 408
Vibrio parahaemolyticus
bile effect, 2372
Vibrio spp.
P. piscicida inhibition, 4986
plasmid transfer, 749
Vibrio tapetis
intraspecific characterization, 1449
Vibrio vulnificus
biotype intraspecific differentiation, 2600
detection of biotype 2, 537
hemolysin gene cloning, 3851
nucleic acids, 2754
phage distribution in oysters, 2464
phenotypic, genotypic traits, 1460
proposal for taxon serovar, 1460
resuscitation, 1002
ribotyping versus RAPD-PCR, 1674
thermal-death times, 3308
Video microscopy
C. parvum oocysts, 724
Vinyl chloride
reductive dehalogenation, 4139
vir
induction in *A. tumefaciens*, 4578
Virulence
A. tumefaciens and *vir*, 4578
Aeromonas strains in drinking water, 2708
E. coli B and C strains, 703
L. monocytogenes mutant, 4945
P. syringae pv. syringae, 2771
R. solanacearum, 844
verocytotoxin-producing *E. coli*, 4585
Y. enterocolitica, 4952

Virulence genes
L. monocytogenes genomic map, 3480
Viruses
decay in coastal waters, 77
destruction by hydrogen peroxide, 3916
drinking water, 3119
fate of liberated RNA in wastewater, 2932
vllY
cloning, sequence analysis, 3851
Volatile sulfur compounds
anoxic freshwater sediments, 4741
vrrA
B. anthracis and anthrax, 1400

Wastewater treatment
fate of liberated viral RNA, 2932
nitrate removal, 2071
probes to characterize foaming, 1107
selenium removal, 3079
uranium removal, 4385
Water
mycobacteria, 547
Water activity
A. flavus mycotoxin coproduction, 1048
Water bottling plant
P. aeruginosa-like strains, 851
Water chlorination
bacterial counting with DAPI, 1564
Water distribution systems
biofilms, 978
poliovirus-1, 978
Waterborne coliforms
presence-absence tests, 771
Water-damaged building materials
bacteria, molds, and toxins, 387
Wetlands
methane oxidation, 3051
nitrogen transformations, 3648
Wheat rhizosphere
2,4-diacetylphloroglucinol, 951
White rot fungi
kraft pulp biobleaching, 1749, 4627
laccase gene family, 2637
novel cytochrome P-450 gene, 2741
phenanthrene degradation, 2495
RBBR decolorizing peroxidase, 1744
stabilization of lignin peroxidases, 2543
Whole-cell biosensors
alkanes in groundwater, 4053
Whole-cell determination
methanogens in anaerobic reactors, 2001
Whole-cell fatty acid profiles
S. enteritidis, 757
verotoxigenic *E. coli*, 757
Whole-cell hybridization
hydrothermal vent chimney microbial ecology, 2876
improved sensitivity, 3268, 3274
Methanosarcina cells, 3043
Whole-cell protein profiles
S. alga differentiation from *S. putrefaciens*, 2189
Wild poliovirus
importation into Canada, 519
Winemaking
killer yeasts, 2821
O. oeni, 1261
powdery mildew biocontrol, 2966
Wohlbachia spp.
relationship of tick endosymbionts, 3926
Wood-decaying fungi
phenanthrene, pyrene degradation, 3919

Xanthomonads
DNA probe for phytopathogens, 4462
Xanthomonas axonopodis pv. manihotis
geographical differentiation, 4427
Xanthomonas pathovar mangiferaeindicae
genomic variability, 246
Xenorhabdus nematophilus
lipid composition and properties, 2826
role of histidine kinase, 962
Xenorhabdus spp.
identification, 574
Xylanase
anaerobic fungi, 628
K. lactis, 3297
Xylanase genes
S. halstedii, 2983
S. thermoviolaceus, 661
m-Xylene-degrading bacteria
in situ analysis, 2136
Xylenes
P. stutzeri growth, 3279
Xylose
conversion by recombinant *S. cerevisiae*, 1959
xysA
analysis in *S. halstedii*, 2983

Yeasts
cell surface engineering, 1362
endocytosis of the maltose transporter, 3831
ethanol fermentation, 4158
freeze-thaw stress response, 3818
glucose utilization, 2779
vacuole labeling, 2897
viability testing, 2897
Yellowstone National Park
Synechococcus motility, 2347
Yersinia enterocolitica
plasmid-bearing virulent serotypes, 4952
recovery of virulent strains from pork, 1657
Yogurt starter cultures
secretion vector from *S. bovis*, 4593
YOYO-1
dye for *E. coli*, marine prokaryotes, 4608
Yucca Mountain, Nevada
microbial growth and activity, 3128

Zea mays
B. cepacia biodiversity, 4485
Zearalenone
recombinant antibody, 263
Zinc
soil microbial populations, 39
Zymomonas mobilis
glucose-fructose cometabolism, 3519